

THE AMERICAN School Board Journal

September



September, 1904

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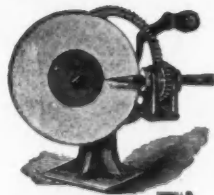


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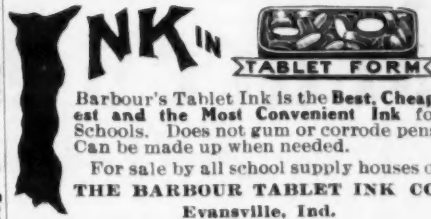
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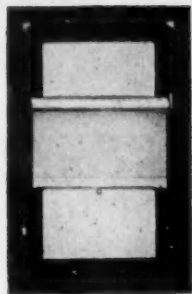
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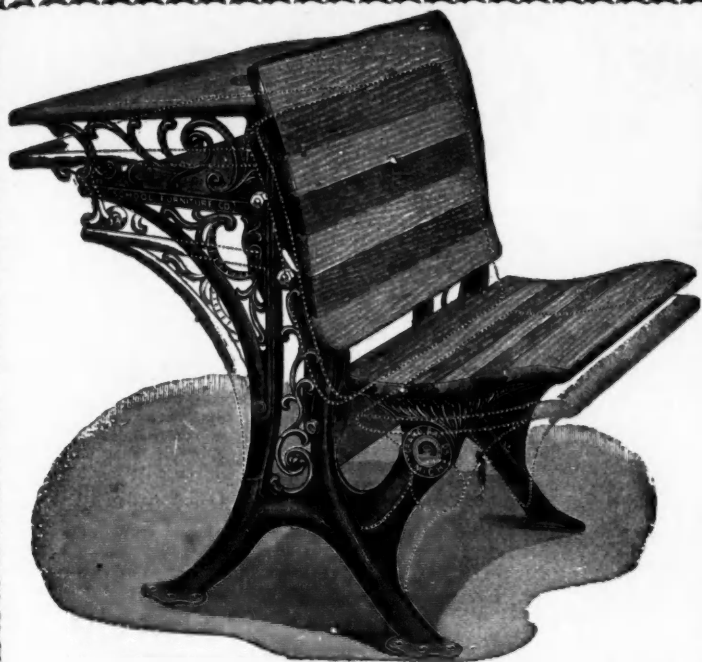
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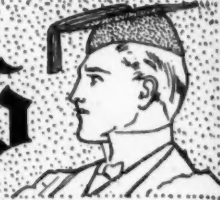
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Educational	Educational Publishing Co.	New York, Chicago.
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Gregg	Gregg Publishing Co.	Chicago.
Heath	D. C. Heath & Co.	Boston, New York, Chicago.
Houghton	Houghton, Mifflin & Co.	Boston, New York, Chicago.
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McCurdy's Exercise	"	
Book	"	
Freeland's	Longmans	
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Beginners'	Thompson	
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Fairbanks & Hebdon	"	
Sanford's Ele.	University	
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Speer's	"	
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Grays	"	
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Spalding's	Heath	
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Bailey's Lessons	"	
Britton & Brown's Ill.	"	
Flora	Scribner	
Harshberger's Herbarium	"	
Sower	"	

CHEMISTRY.	Bradbury	Appleton
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McGregory's	"	
Shepard's	Heath	
Inorganic	"	
Note Book	"	
Remsen's Organic	"	
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Strang's Ex. in Eng.	"
Pearson's Comp.	"
Spalding's Ele. Comp.	"
Lewis' Intro. Rhetoric	"
Webster's English: Comp.	"
and Literature	Houghton
Webster's Ele. Comp.	"
Bates' Talks on Writ-	"
ing English	"
White's Everyday Eng-	"
lish	"
White's Words and	"
Their Uses	"
Longmans'	Longmans
Baldwin's	"
Kellogg's Book on	Maynard
Carpenter's H. Sch: First	"
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Course	Macmillan
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(See Penmanship.)

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Adler's German	"
Meadow's French	"
Spiers & Surcoure's	"
French	"
Meadow's Italian	"
Melchior's Italian	"
Liddell & Scott's Greek	Ginn
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German	"
Worcester	Lippincott
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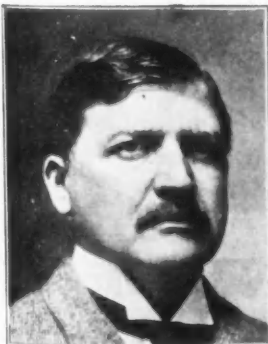
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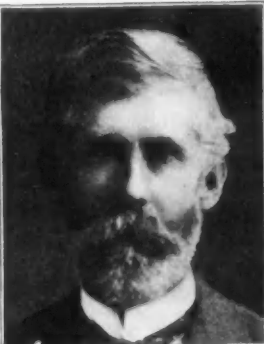
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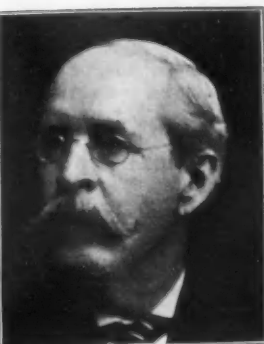
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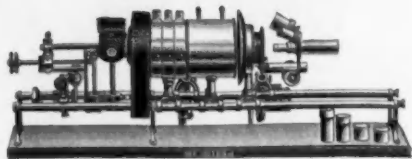


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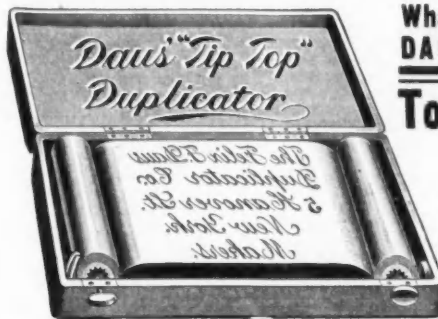
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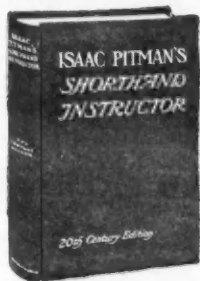
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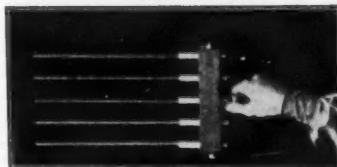
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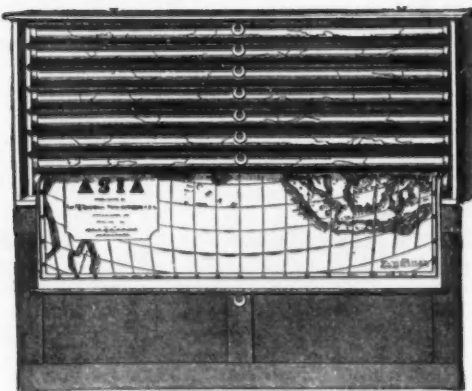
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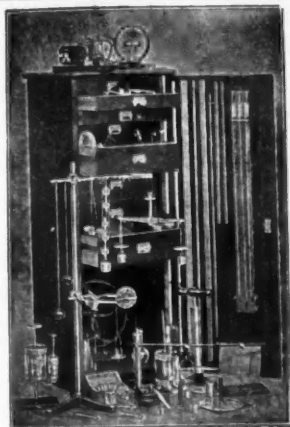
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# School Board Journal

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MILWAUKEE-NEW YORK, SEPTEMBER, 1904.

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## SAFE AND SANE TRAVELERS.

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## RECENT DECISIONS.

Ohio. The new school code provides that all requisitions of school boards for the tax levies must be divided into four funds: tuition, building, contingent and sinking fund. Several cities have already revised their annual budget to conform with the requirements.

Reading, Pa. The solicitor of the board of education has rendered an opinion based upon a recent decision of the Pennsylvania Supreme Court: "School directors have no authority to permit public school buildings to be used for sectarian religious meetings, for the holding of public lyceums, or for any purposes other than school purposes directly relating to the instruction of the pupils of the schools, or for lectures or debates which are made a part of the course of instruction."

Illinois. The county court of Sangamon county has decided that a building fund cannot be created unless the money raised by taxation is to be expended for building purposes and has been voted by the district.

## Employment of Teachers.

Where plaintiff was employed as a teacher for nine months, and after eight months had expired the school was closed by order of the board of health on account of the prevalence of smallpox, whereby plaintiff, though ready and willing, was unable to complete his contract, the obligation of the school district under the contract was discharged.—School Dist. No. 16 of Sherman County vs. Howard, Nebraska.

## Special Assessments.

The payment of a special assessment against school property for street improvements is but a method of applying the funds of the school district for the benefit of the schools, and is not a diversion thereof from the object for which they were created.—City of Chicago vs. City of Chicago.

## Corrupt School Directors.

Assuming that the act of a school director in corruptly accepting money as pay for his vote or influence in the appointment of teachers is not technically speaking bribery; still for such an act he may be indicted at common law.—Commonwealth vs. Brown, Pennsylvania.

## Mechanic's Lien on Schoolhouse.

Laws require service of a mechanic's lien on a school building in a free school district, as well as notice of pendency of the action to foreclose such lien, to be made on the officer charged with the disbursement of the fund applicable to contract under which the claim was made. Held, that where the lienor has served such papers on the treasurer of the board of education of a school district it is sufficient, and he need not serve them on the secretary of a committee of the board, temporarily appointed to disburse the fund raised for the erection of a school.—Westgate vs. Shirley, State of New York.

## Sisterhood Teachers.

Under Consolidated School Law, authorizing and requiring boards of education to employ teachers for secular education of inmates of orphan asylums, the fact that such an asylum is controlled by a religious organization, and that the teachers employed, who were licensed to teach by the public authorities, were members of a sisterhood connected with such denomination is immaterial.—Sargent vs. Board of Education, City of Rochester, N. Y.

## Purchase of School Supplies.

The law provides that no act authorized to be done by a district school board shall be valid unless voted at its meeting. Section 436 provides that purchases of school supplies shall be approved at a regular meeting of the board at which all the members are present. Held, that where the clerk and directors of a school district purchased a school chart, giving a district order therefor, the treasurer of the school district having no knowledge of the transaction, and the purchase was not brought up at a meeting, the contract was invalid, and the district not liable on the order. \* \* \* Where the clerk and directors of a school district purchased a school chart giving a district order therefor, the treasurer of the school district having no knowledge of the transaction and the purchase not being brought up at a meeting, the mere silence of the district officers as to the purchase could not amount to a ratification binding on the district. \* \* \* The fact that the chart was deposited in a schoolhouse and used by the teachers did not amount to a ratification binding on the district.—Caxton Co. vs. School Dist. No. 5 of Town of Spooner, Wisconsin.

## Sale of School Buildings.

The law providing that the voters in a township assembled at annual meeting shall have power to direct a sale or other disposition of a schoolhouse or other property belonging to the corporation, does not apply to the removal of a schoolhouse from one site to another, so as to require the sanction of the voters to authorize such a step.—James vs. Gettinger, State of Iowa.

## Schoolhouse Levy.

Under the law declaring that for the purpose of establishing free schools the directors of a district may levy a tax annually, not to exceed 2½ per cent., for building purposes, etc., the directors have no authority to levy a tax for building purposes merely to provide funds to be used in the future for the erection of a building which they have in contemplation, but the erection of which they have not fully agreed upon at the time the tax was levied.—Cleveland, C., C. & St. L. Ry. Co. vs. People, Illinois.

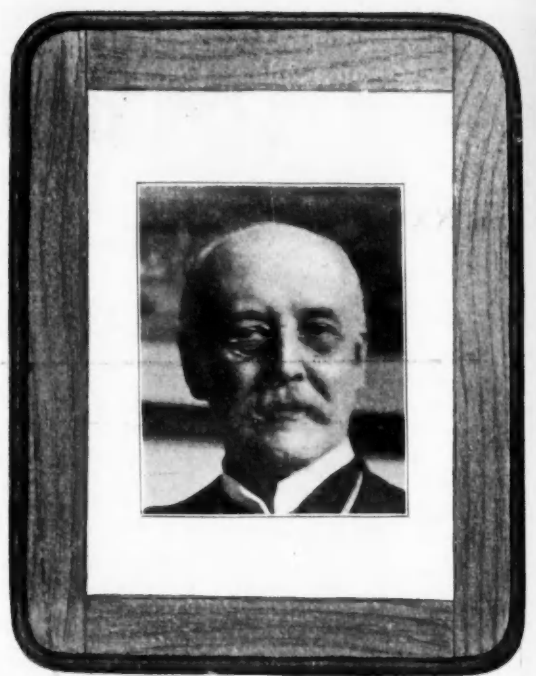
Where tax payers who were fully advised of every step taken toward the construction of certain schoolhouses permitted them to be built, and an indebtedness incurred, for which a tax was levied, and made no effort to resist the same until after three months of school had been maintained in such schoolhouses, and the tax levied was one which the township had power to levy, such tax payers were estopped by laches from thereafter questioning the validity of the tax, notwithstanding in a previous proceeding the Supreme Court had held that the tax had been improperly voted.—Loesche vs. Goerd, State of Iowa.

## Dismissal of Teachers.

A school board, having authority under its contract to dismiss a teacher, cannot arbitrarily exercise such power for personal reasons, or without grounds affecting the teacher's efficiency and usefulness. School Dist. 94 vs. Gautier, Okla.

The action of a school board, when authorized in discharging a teacher, is not conclusive, and, in a suit by the teacher to recover for the residue of the term, the question of sufficient grounds is one for the court or jury. School District No. 94 vs. Gautier, State of Oklahoma.

A teacher in the State Normal School was, at the end of the school year, elected by the trustees as a teacher for the following year, and immediately notified thereof by the secretary of the Board, to whom she then said that she was glad that she was going to have the same work. She had had charge of the kindergarten department. She consulted with the principal, at his request, with reference to the work of the com-



DR. WM. H. MAXWELL,  
President National Educational Association and Superintendent of Schools of Greater New York.

ing year, he expressing a desire that she give a portion of the time to the training department. She wrote him that she could not take the additional work in the training department. Thereafter, shortly before the beginning of the school year, the kindergarten department was discontinued, and her election was rescinded, without her being given the alternative of teaching in the training department. Held, that she accepted her election, and whether or not it was to any particular kind of teaching, there was a breach of the contract by the State. MacKenzie vs. State of Washington.

## Not Negotiable.

A school district warrant is not negotiable paper, and the purchaser or holder is not an innocent purchaser, but takes subject to all defects and irregularities in its assurance. Kellogg vs. School Dist. 10, Comanche Co., Okla.

## Actions and Liabilities.

Injunction at the suit of a taxpayer is a proper remedy to restrain a school district from constructing schoolhouses at unauthorized places and contracting liabilities therefor which the taxpayer would be required to pay. Kellogg vs. School District No. 10 of Comanche County, Oklahoma.

A taxpayer may sue to restrain the payment of an illegal warrant of a school district without making the holder thereof a party to such action. Kellogg vs. School District No. 10 of Comanche County, Oklahoma.



## Temperature Regulation.

Principal—The pupils in the third grade say that the temperature in the room is too hot!

Janitor—That's the teacher's fault, not mine. She thrashes the boys every day.



# Among Boards of Education

## RULES AND REGULATIONS.

Lorain, Ohio. Owing to the wholesale absence of teachers on account of sickness during the last winter the board has adopted new rules governing the pay of teachers in such cases. The board will allow full pay to teachers for the first five days' absence because of sickness. After five days have passed and until the twenty-fifth day, one dollar a day will be deducted for each school day. After twenty-five days have elapsed full pay will be withheld until the teacher returns to his or her duties. In other words, from the twenty-fifth day teachers on the sick list will draw no pay.

Schenectady, N. Y. The board of education has adopted the following set of rules to govern the use of the auditorium in the high school:

"First—The auditorium and rooms of the high school shall be used only for educational purposes, in connection with the school and under the direction of the school authorities.

"Second—The superintendent shall have power to grant the school for the purposes explained in Rule 1, and when in doubt shall consult with the Committee on High Schools.

"Third—Appointments for the use of the rooms for other purposes shall be under the control of the Board of Education.

"Fourth—No charge shall be made except to defray expenses, and admission shall be free to teachers and pupils of the high school."

New Haven, Conn. The following rule has been adopted to supplement regulations governing the appointment and resignation of teachers: "Any appointment of a principal, teacher or assistant not accepted within two weeks from the date of notification will be considered as declined unless special arrangements shall be made to the contrary with the superintendent of schools. Any teacher who resigns her position during the school year shall give the superintendent a month's notice to that effect. Failure to give such notice, unless sickness be the cause of the resignation, may cause a forfeiture of salary for a month's time, as the committee on schools may determine."

Spokane, Wash. The following rule has been adopted governing societies, in the schools: "All student organizations must be subject to the supervision and general control of the high school principal and the superintendent. Secret societies of any kind are prohibited."

Sioux City, Ia. The following rule adopted: "Teachers in order to be eligible for election to principalships must have completed successfully a four-year course in some good normal school, college or university, and have had successful experience as principal or have given evidence of special fitness for the position."

Philadelphia, Pa. The board of education proposes to institute a standard of physical qualification of applicants for admission to the Normal school, and of all other applicants for certificates of qualification to teach in the schools.

The proposed rule sets forth that all applicants shall be required to furnish a certificate of physical fitness, in accordance with prescribed forms, to be signed by a physician. The applicants will be required to answer over their signatures the following questions:

Have you had any severe illness within the last year? If so, what was it?

Have any of your parents, brothers or sisters suffered with phthisis?

How much time have you lost from your studies, attendance at school or vocation, through illness, during the last two years?

Have you any disease of the throat, eye or ear?

Have you been successfully vaccinated within three years?

What is your age?

The certificate to be signed by the physician will be in the following form:

Has the applicant phthisis?

Has the applicant any contagious disease of the skin or mucous membrane?

Has the applicant any defect in hearing? If so, describe its extent.

Has the applicant any irremediable defect in vision?

Has the applicant any defect or disease which will probably disqualify him or her from performing regularly the duties of a teacher?

The fourth section of the proposed rule reads: No person who shall be certified as having phthisis, any contagious disease of the skin or mucous membrane, or any defect in hearing or in sight which will probably disqualify him or her from efficiently performing the duties of a teacher shall be admitted to the Normal school or be permitted to attend any examination of applicants for certificates of qualification to teach in the Philadelphia schools. Nor shall any such person receive a certificate of qualification to teach upon completion of the course of study prescribed for the Normal school. If, however, the disease or physical defect which disqualifies the applicant shall not be incurable, the person temporarily disqualified shall, upon a certificate from the physician that the disqualifying cause no longer exists, be eligible for admission to the Normal school or the School of Pedagogy, or to receive the certificate of qualification which he or she has earned at either of said schools.

Providence, R. I. The following changes were made in rules of the school committee at the last revision:

To the superintendent of schools was given the power of appointing all teachers (except principals of high and grammar schools and directors of special branches of instruction) on probation for a year, subject to confirmation by the school committee; then, such teachers to be subject to confirmation by the school committee for permanent tenure upon nomination of the superintendent of schools.

The superintendent was empowered to submit nominations of principals of high and grammar schools and directors of special branches of instruction to the committees having charge of the departments of work where the nominee is to be employed, notice of such nomination to be sent to each member of the school committee ten days before the meeting at which they are to be acted upon.

It was provided that the selection of text-books should be made upon the recommendation of the superintendent, with provisions that the questions of changes be submitted to representative committees of teachers appointed by the standing committee in charge of the class of schools or special branch of instruction in which the books are in use or to be used. The report of the committee of teachers is to be submitted to the superintendent, who has power to approve or reject the same in whole or part, and

such report is to accompany all recommendations by the superintendent for a change in books. The school committee has the final action in the matter of a change in or addition to the list of text-books.

The terms of office of the superintendent and secretary were changed, and a new office was created to be filled by the election by the school committee of a superintendent of school property, with power to appoint school janitors and other employees, said superintendent of school property to be subject to the direction of the school committee, and the appointment of the purchasing agent by the executive committee is to be subject to the approval of the school committee.

The time of the spring recess was changed so that it will occur during the week preceding Easter Sunday, and the age of admission to the primary schools was changed to six years.

New York City. Women teachers employed by the New York board of education may now wed without interference. A resolution has been passed amending the by-laws of the board which directed that charges be preferred against woman teachers who married. The board's action was taken in view of the decision of the Court of Appeals in the case of Murphy against Maxwell. The members of the board were opposed to the abolition of the by-law, however.

Brookline, Mass. It is proposed to simplify the work of the teachers by issuing "circulars to parents," in which the latter are advised "to see to it that the children read aloud at home, that they practice letter writing or other similar work, having their spelling and methods of expression revised; that they be drilled in the multiplication table and other rudiments of arithmetic at the time that they are engaged in these studies at school."

Malden, Mass. Savings bank has been indorsed by the board and permission to introduce the same will be granted to principals who desire.

San Francisco, Cal. The board of education has instituted a system in the schools by which each teacher is constituted an inspecting physician. A set of instructions has been sent to the principals of all schools describing all contagious diseases and how to detect them. Each teacher will be expected to make a personal examination of each child in her class, and to report to the board of health if she finds any suspicious symptoms. All cases of poor vision, deafness, chronic nose or throat trouble not requiring immediate attention are to await the visit of the inspector especially detailed for that work.

St. Paul, Minn. The board of education has under consideration a plan whereby the present high schools will be turned into grade schools and a central high school built. It is suggested that a group of buildings be built, including a Mechanic Arts school.

Chicago, Ill. Teachers go before a board of medical examiners that follows a system of measuring and weighing very like that employed by the enlisting officers when recruits are being sought for the army. Shoe heels are rigorously inspected, and even the weight of the clothes is taken into consideration, so there is no possibility of a candidate who is under size or under weight getting in. The child study department of the Chicago schools is accountable for this theory and its practical application. One of the physicians in charge has said: "The healthy person develops symmetrically. Beauty and brains go together. In the best specimens it is found that a fine mind generally goes with a well proportioned body."

Union Hill, N. J. The offer made by a dentist to examine the teeth of the public school children gratis, was denied.

# Among Superintendents

## CANDIDATES FOR STATE SUPERINTENDENT.

Indiana. Democratic: Levi H. Scott, New Albany, present county superintendent of Floyd County; Republican: Fassett A. Cotton, Indianapolis, present incumbent.

Michigan. Democratic: John E. Mealley, Plymouth, superintendent of schools; Republican: Patrick Henry Kelley, Detroit.

North Dakota. Democratic: C. C. Schmidt, Jamestown; Republican: W. L. Stockwell, Bismark, present incumbent.

Arkansas. Democratic: J. H. Hinemon, Little Rock, present incumbent.

South Dakota. Democratic: Miss Emily Mead, Wheeler; Prohibition: Wm. G. Jolley, Waubay; Republican: G. W. Nash, Canton; Socialist: Mr. Ferry, Vermillion, present incumbent.

Kansas. Democratic-Populist: W. R. Howard, Leavenworth County; Prohibition: H. J. Harnley, McPherson County; Republican: I. L. Dayhoff, Reno County.

South Carolina. Democratic: O. B. Martin, Columbia, present incumbent and no opposition.

Washington. Democratic: Dr. W. Girard, Seattle; Republican: R. B. Bryan, Olympia; Prohibition: Mr. Gellerman, Tacoma; Social-Democratic: Miss Frances Sylvester, Thurston County; Social-Labor: J. J. Woods, North Yakima.

North Carolina. Democratic, J. Y. Joyner, Raleigh; Republican, C. P. Frazier, Greensboro, Guilford County.

West Virginia. Democratic, M. C. Helmick, St. Mary's; Prohibition, Wayland F. Reynolds, Flemington; Republican, Thomas C. Miller, Charleston.

## CITY SUPERINTENDENTS.

Boston. Supt. George H. Conley, who succeeds E. A. Seaver, by a vote of 13 to 10, says his administration will stand for: "No frills, no fads, common sense, progressive regime, less specialization and narrowness, greater restriction of elective system, thoroughness in fundamental studies, no shirking of prolonged and strenuous effort, more individual contract and influence of teachers with pupils, teachers not to teach single subject long enough to become narrow, manual training schools are not to produce skilled mechanics, but to assist the student in a fortunate choice of occupation, school buildings to be used whenever possible for evening schools, etc."

Dr. F. E. Spaulding, formerly of Passaic, N. Y., has taken Superintendent Atkinson's place at Newton, Mass.

Gilman I. Fisher, recently superintendent of Great Barrington and Lenox, Mass., has been elected to Danbury, Conn.

Supt. L. A. Goodenough of Paterson, N. J., died suddenly on August 5th, at Belleville, N. Y.

Supt. A. B. Blodgett of Syracuse, N. Y., spent the summer in Europe.

Charles E. Carter, a graduate of the University of Michigan, is the new superintendent of the Greely, Colo., schools.

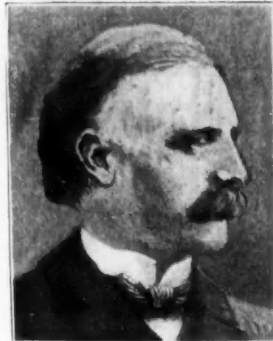
Supt. Harris, formerly of Poughkeepsie, is Mayor Hogan's candidate for the superintendency at Troy, held for some years past by John H. Willetts. There is a dead-lock at present between the faction that says Willetts must go and that which opposes radical action in the matter at this time.

Supt. J. E. Massee, formerly of Watervliet, N. Y., has been elected at Herkimer to succeed S. F. Herron, who goes to Northampton, Mass.

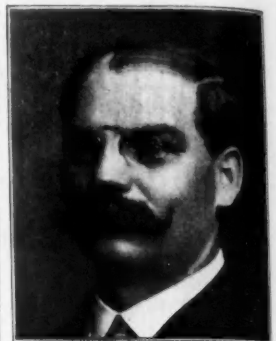
Principal Emory L. Meade, of the Milton, Mass., High School, comes to the principalship of the Utica Free Academy. A great many New York State school men, who were in evidence in the contest for the place, wonder why it is that Utica always goes to New England to get the men for its best places.

Sioux City, Iowa. Principal G. E. Marshall of the high school expresses himself on an important question as follows:

"I wish also to record my objections to the so-called secret societies that have recently claimed so much time and attention from some of our students. While they are in no way connected with the high school, yet, as the membership is almost wholly composed of high school students, it is in the school that the effect is felt. They have ever met my unqualified disapprobation so far as this influence upon the school life and the discipline is concerned, and their harmful influence has already been made manifest. My objections to them are familiar to you. Innocuous in themselves, they are out of place in a public school, which should be essentially democratic. They create a feeling of hostility and envy among non-members; they are subversive of discipline, and chiefly do distract the mind and attention of the student from legitimate school work. Any secret bond which tends to combine a select few into an organized clique, in my opinion, has no place in a public school."



GEORGE H. CONLEY,  
Superintendent-Elect,  
Boston, Mass.



BURTON E. NELSON,  
Superintendent-Elect,  
Racine, Wis.

Trenton, N. J. The board has adopted the following rules to govern the appointment of probation and election of teachers:

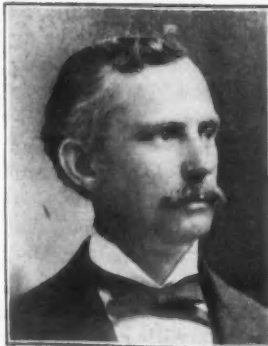
"Every teacher elected to a position in the Trenton public school shall serve for a time on probation, and shall be regarded as a temporary teacher from the date of her assignment to the time when her appointment is made permanent by action of the board of education.

"Temporary teachers shall be advanced towards permanent appointment in uniform steps of two calendar months each. At the end of each two months of actual teaching the principal of the school to which the temporary teacher has been assigned shall make a report, in writing, on blanks provided for that purpose, concerning the efficiency of said temporary teacher. These reports shall be kept on file and shall be subject to inspection by members of the board.

Few school superintendents have been selected with greater care and scrutiny than Burton E. Nelson, who was recently chosen by the board of education of Racine, Wis. The board, appreciating the full importance of selecting an efficient school superintendent, looked over a number of candidates and finally concluded to investigate the standing of Mr. Nelson. Letters were written to prominent educators of Illinois and then a committee consisting of Rev. Peter Gotke and Mr. W. J. Harvey visited Lincoln, Ill., where Mr. Nelson was then serving in the capacity of superintendent. Here thirty of the leading men were interviewed before the man most deeply concerned was aware of the fact. The result was the selection and election of Mr. Nelson.

In making the choice the Racine board has served its community with discriminating care and fidelity. Mr. Nelson is a thorough schoolmaster, an educational leader and a man of splendid executive ability. He will wear well and become more valuable to the school system as time goes on. He is safe, sound and serviceable and will bear out the judgment of the board.

Grand Rapids, Mich. The board has consolidated the positions of superintendent of janitors and supply clerk. The new official will receive a salary of \$1,500 per year and will have an assistant.



\*J. H. HINEMON,  
Arkansas, Democratic.



\*W. L. STOCKWELL,  
North Dakota, Republican.



C. C. SCHMIDT,  
North Dakota, Democratic.



\*O. B. MARTIN,  
So. Carolina, Democratic.



\*I. L. DAYHOFF,  
Kansas, Republican.



\*GEORGE W. NASH,  
South Dakota, Republican.

## CANDIDATES FOR STATE SUPERINTENDENT OF PUBLIC INSTRUCTION.

\*Present incumbents who have been nominated for re-election.





# NEW SCHOOL BOARD PLAN



A committee appointed by the Board of Education of Grand Rapids, Mich., and consisting of P. B. Wright, Cyrus E. Perkins, Moses Toggart and A. C. Dennison, formulated a new plan of school organization. The plan aims at a reduction in the membership of the board which is now said to be too large, as well as at a method of nominating and electing the school trustees. It embodies the following conditions:

First—To reduce the size of the Board of Education to 12, one trustee elected from each ward of the city, or to seven members elected at large.

Second—To lengthen term of service to four years, but so arranged that half of the trustees, as nearly as may be, shall be elected every two years.

Third—To require the same safeguards and secrecy in voting for school trustees, as are provided for in regular municipal elections, and hold school election and election of library commissioners at the same time and at the time of the regular municipal election.

Fourth—To exclude candidates for election as school trustee from place on the boards of registration and boards of inspectors of election.

Fifth—To provide for removal of a trustee for malfeasance or misfeasance in office; to provide as disqualifying for school trustee the simultaneous holding of any remunerative public office; and further to provide for a sworn statement by every school trustee showing the whole amount of money expended in election to said office, and an itemized account thereof showing the purposes for which the money was spent. This shall not apply to the mayor, who shall be ex-officio a member of the Board of Education.

Sixth—To provide that nomination of trustees shall be only by petition.

Seventh—To provide that unless a person is registered as a qualified voter for municipal elections, registration shall be made only upon personal application; and that to facilitate registration, in addition to our present arrangements, registration books of each ward shall be kept in the office of the secretary of the board, and open for registration at all times when said office is open for business.

Eighth—To provide that the city treasurer and the city comptroller shall be ex-officio treasurer and auditor, respectively, of the Board of Education.

Ninth—To provide in general terms but clearly the powers of said board, making the same ample and definite but distinctive and distinctively legislative, not executive, namely, to determine the educational policy and methods and the business methods of the schools, and the number and salary of the employees, the execution of such methods and policies and the appointment of such employees to be assigned to agents chosen by said board.

Tenth—To provide that said board shall organize annually, choosing from its membership a president and vice-president, and from outside its membership, a secretary, the duties and salary of the secretary to be fixed by said board.

Eleventh—To provide for the educational work of the schools by requiring the board to elect a superintendent of schools for one year, who, in case of re-election at the end of this time, shall be chosen for four years, subject, however, to removal by a three-fourths vote of the board. The superintendent shall give his whole time to the educational management of the schools and be responsible therefor to the Board of Education.

Twelfth—To provide for the business management of the schools by requiring the board to elect a business manager, for the term of one year at first, and for a term of four years thereafter if chosen to succeed himself, subject, however, to removal by three-fourths vote of the board. The business manager shall devote all his time to his official duties and shall be responsible to the Board of Education for the construction and care of school buildings, the purchase of supplies and all other matters pertaining to the business management of the schools. The board at its discretion may combine the offices of secretary and business manager.

Thirteenth—To provide for an annual audit of accounts by experts appointed by the mayor.

Fourteenth—To provide that among the discretionary powers of the board shall be a provision for the purchase by the board of books and all supplies needed by pupils in their school work and for the sale of same to pupils at cost; the leasing of the same or loaning thereof, where purchase or hire would be a hardship.

Fifteenth—To provide all purchases excepting a limited amount made by the business manager in emergency, shall be by contract awarded to the lowest responsible bidder after due advertisement under rules requiring the receipts of bids prior to a definitely advertised time, the public opening of bids and the public award of the contracts.

## FIRE PROTECTION.

When a fire broke out in a school in Brooklyn recently a thousand drilled children marched quietly to the street in three minutes. The only danger came from a mob of undrilled mothers who fought to get in at the doors and would have caused a blockade and a panic if the teachers had not forced them back.

In this, as in many other instances of the kind, it has been shown that as far as the children and the teachers were concerned the fire drill in the schools has reached absolute perfection. What is needed now is training for parents, and incidentally a method of keeping cleared space in front of the doors so that disorderly outsiders may not interfere with the workings of the beautifully oiled school machine. Obviously the efficiency of the fire drill rests upon the confidence of the children that the way is clear for them to march out quietly and in order. If that confidence should be destroyed the results would be disastrous.

Schenectady, N. Y. The board has authorized a committee to place fire escapes on the new high school.

Brocton, Mass. Two Kirker-Bender fire escapes have been purchased by the school committee.

Cincinnati, Ohio. The doors on the public schools of the entire city have been rehung to swing outwardly.

Brocton, Mass. Cards have been placed in all the school buildings, indicating the fire alarm box nearest to the building for use in cases of emergency.

Los Angeles, Cal. The Board of Education has increased salaries in the supervising force as follows: Superintendent, from \$300 per month to \$4,000 per year; deputy and assistant, from \$175 per month each to \$2,500 per year; superintendent's clerks, bookkeeper and supply clerk, an increase of \$10 per month each; principal of polytechnic school, from \$220 per month to \$300 per month; special teachers in drawing, sloyd work, music, domestic science, kindergarten and manual training grades, from \$130 per month to \$150 per month each; assistant teacher in drawing, from \$120 to \$140; foreman and superintendent of janitors, from \$135 per month to \$150; assistant foreman, from \$95 to \$100.



JOHN W. DRYDEN,  
Kearney, Neb.



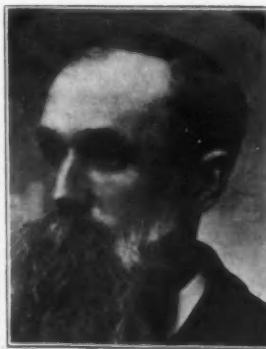
O. C. SARLES,  
Hillsboro, N. D.



WALTER WEBB, M. D.,  
Sharonhill, Pa.



J. W. ARMSTRONG,  
Auburn, Neb.



S. MCGIRR,  
New Lexington, O.



W. M. C. WHITE,  
Silver Bow, Mont.

PRESIDENTS OF BOARDS OF EDUCATION.

# School Architecture of St. Louis

(Concluded from the August number.)

By WM. B. ITTNER,  
Architect and Commissioner of School Buildings,  
St. Louis, Mo.

The warm air is introduced into the rooms about eight feet above the floor, the heat inlets being placed at or near the same end of the room as the outlet.

The air enters the class room at a velocity of about 300 feet per minute, and by means of deflecting blades at the inlet, is evenly distributed throughout the entire room. The air is thus compelled to make a circuit of the room before passing out through the wardrobe vent.

The thermostat device to regulate the temperature is placed at or near the opening leading from the class room to the wardrobe; and when set at the temperature desired, maintains it within a variation of one degree during the entire winter.

During the summer months a system of cooling the air by forcing it through a water spray or cooling chamber, can be adopted, and the rooms rendered cool from the constant flow of cool air. In order to heat the building rapidly in the morning, the systems have been arranged to by-pass at the fresh air inlet, the fan drawing the air from the rooms and corridors, thus converting it into what might be termed a direct system for a sufficient length of time to thoroughly heat the building before fresh air inlets are opened and the breathing process of the building is begun. All toilet rooms are separately ventilated to a stack that is kept heated at all times.

The cost of heating and ventilating by our method has been 36½ cents per pupil (with bituminous coal costing \$2.15 per ton of 2,000 lbs.) covering a heating season of seven months duration.

## Construction.

All outer and interior bearing walls are of hard brick laid in Portland cement mortar. Interior non-bearing partition walls are of hollow tile, and the buildings are plastered with cement or hard plaster. The interior framing is of steel girders and floor beams, the spans varying from 10 feet to 12 feet. Floors are constructed of a system of concrete and metal, or of tile capable of sustaining a load of four hundred pounds per square foot, exclusive of the weight of construction. Some of the later buildings have floors constructed entirely of armored concrete (beton arme).

All stairways are of iron, 5 feet wide; the boxes of threads are filled with concrete and covered with asphaltum which renders them noiseless and non-slipping. The roofs, where pitched, are covered with slate or red shingle tile, cemented and nailed to concrete or sheathing. Flat roofs are cemented and covered with composition. Gutters are lined with vitreous tile bedded in asphaltum, copper being used only for the down spouts. Corridors are paved with granite mosaic with 6-inch border and base of marble, or are of narrow strips of hard wood closely laid.

Basement floors are granitoid or cemented with an asphalt finish in toilet rooms. Class rooms are floored with closely laid hardwood flooring laid on strips over concrete filling. Such woodwork as is used, is of quartered oak, and simple in design.

All class room doors open into corridors in the line of direct travel to the exits, and are leather-covered and equipped with floor hinges.

The plumbing is of the most approved sanitary type, and is installed, like the balance of the work, under a system of rigid inspection. The water closets are installed in a series of automatic flushing ranges, the frequency of the

flush being regulated by the flow of water into the flush tank. Each closet is vented at the closet seat, through a 1-inch by 6-inch vent opening.

The urinals have marble partitioned stalls, are automatically flushed the same as the water closets, and are vented through an opening along the base at the floor. The vent ducts from water closets and urinals are connected to a heated stack, the fresh air, after making the circuit of the room, passing out through the fixtures themselves through these vent ducts and the stack.

## Equipment.

Class rooms are equipped with natural slate blackboards set 1 foot 9 inches above floor for lower, and 2 feet 6 inches for higher grades, and extending around the three inner walls of the rooms. The desks are of the single adjustable type, with aisles 18 inches wide between desks. A bookcase, shelf and wardrobe are provided for teacher, and cases are placed in the library, Kindergarten and store-rooms.

Drinking fountains are installed in corridors as well as in yards and basement. The walls are painted in appropriate colors, with a stenciled frieze, and a picture molding is placed at the ceiling line. The corridors are also treated in the same manner, and serve for exhibition of photographs and class work. Kindergartens are decorated with mural paintings typifying the life of childhood.

Each room has a self-winding electrical clock, regulated from master clock in the Principal's office. Artificial light is furnished by gas or electricity.

The grammar schools illustrated here will accommodate, including the fixed seats and kindergarten, 1,200 pupils. Their cost has been \$105 per pupil, or \$5,600 per class room, or its equivalent.

(Views of other buildings presented at this stage of Mr. Ittner's lecture, showing a variety in architectural treatment, together with a number of views of detail and interiors.)

## Buildings Devoted to Higher Education.

One of the buildings recently erected, and devoted to higher education, is the Wm. McKinley Manual Training High School. The idea of manual training, like that of the kindergarten, had its first trial in St. Louis. Although introduced by Prof. Calvin M. Woodward in the Washington University in 1879, and not in the public schools, it has found its way into the curriculum of most of the public school systems in the large cities of America. This idea of thus supplementing the work of the brain by the work of the hand has dominated the plan of this building, and will illustrate that idea of educational expansion which is one of the marked tendencies of our time.

The building is almost square in plan (255 by 253 feet) and of a much more complex nature than the schools heretofore considered. A central entrance, flanked by octagonal towers, is supplemented by side entrances leading to the main corridor, twenty feet in width, from which give auxiliary corridors eight feet wide.

On the first floor there is a class room for forty pupils, a reception room and Principal's office, three laboratories devoted to the study of Chemistry, physics and biology, equipped for classes of twenty-four pupils, each laboratory

having a lecture room for forty-eight pupils, a teachers' laboratory, a store-room for apparatus, and a dark room for photography.

There are two woodworking shops, 32 by 70 feet in size, one for carpentry, the other for wood turning and pattern work, each equipped for twenty-four pupils and each having a wash, locker and tool room, as well as a storage and stock room.

To provide for the manual training of girls, two rooms are devoted to Domestic Science, with a small model dining room adjoining, and one room for sewing; each with its store-room.

The auditorium is entered from the main corridor on the first floor, and has a seating capacity of 736. The gallery is entered from the main corridor of the second floor and seats 216 pupils. It has a large stage and two dressing rooms; while coat rooms are provided near the entrance to the auditorium, which is arranged and equipped so it may be used for evening lectures.

The second floor has four 23 by 32 foot classrooms equipped for twenty-four pupils; four 28 by 32 foot rooms for forty-eight pupils, and two 32 by 41 foot rooms for seventy-two pupils. There is also a large room to be used as a library of reference.

The third floor has four classrooms equipped for sixty-four pupils, and two rooms for ninety-eight pupils; also a 23 by 64 foot room for free hand drawing; a business room with necessary banking rooms, offices, etc., each equipped for forty-eight pupils; a large room for stenography and typewriting, for twenty-four pupils; also a room for photography, with dark room adjoining.

The classrooms were planned to enable the teacher to supervise the class at study, as well as to hear a class at recitation—an arrangement that obviates large study halls used for study only.

When the central tower is carried above the third floor, it provides space for a mechanical drawing room 72 by 32 feet in size, equipped for sections of forty-eight pupils, with two storage rooms and a room for blue printing.

In the basement, adjoining the entrance vestibules, are located the central locker rooms for each sex; small locker rooms being also provided on each floor in order not to concentrate lockers in one location. Retiring rooms adjoin the general locker rooms.

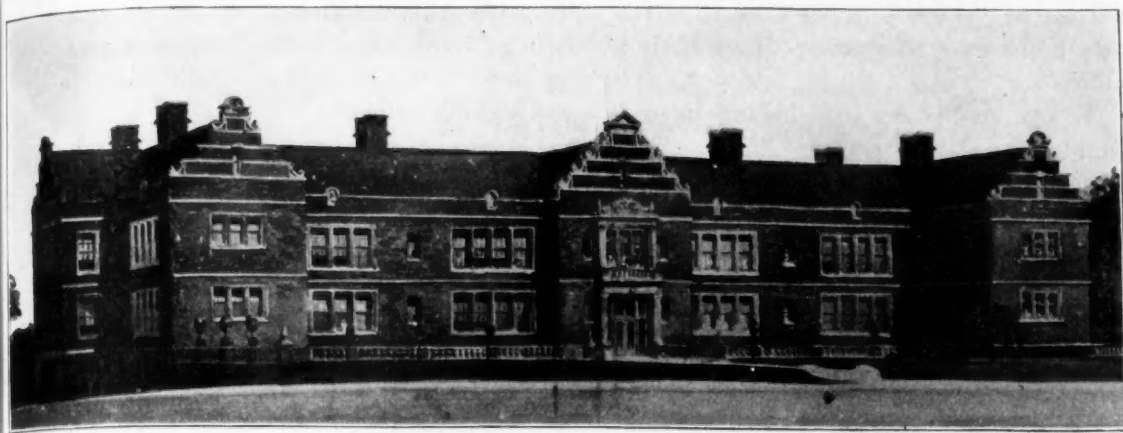
The boiler and coal rooms are located outside of the main building. The heating and ventilating apparatus and the electrical equipment for supplying power to shops have been installed under the auditorium, where an amphitheater seating forty-eight pupils is also located, in order that the dynamos and engines may serve for illustrating and study by classes.

The blacksmithing and machine shops, each 40 by 84 feet in size, and equipped for sections of twenty-four pupils, are located in the courts, lighted by skylights, and entered from main corridor through vestibules, thus preventing noise penetrating the building. Each shop has a storage, tool, locker and wash room.

There is a gymnasium 41 by 85 feet in size, with locker and shower baths for each sex; also a lunch room of the same dimensions, with kitchen adjoining.

The entrance for janitors, engineers, etc., is placed at rear of basement, and the head janitor's room commands a view of all entrances to the main corridor.





THE NEW BLOW SCHOOL, ST. LOUIS, MO.  
Wm. B. Ittner, Architect and Commissioner of School Buildings for the St. Louis School Board.

From the foregoing description, and by a closer examination of the floor plans, which show more clearly the position of the rooms in their relation to the general scheme, it will be seen that the plan promises to answer the multifarious requirements of a problem comparatively new in school architecture.

The constructional features follow the same general lines of the grammar schools just described.

The brickwork is light red in color, laid with wide and deep horizontal joints in courses composed of three stretchers and a header, the latter being flashed.

#### Portable School Rooms.

To meet the demand for more school rooms where a building may be temporarily overcrowded with pupils, a schoolroom was designed which could readily be taken apart, transported in vans and set up where needed; at the same time answering the purpose of a well lighted, ventilated and comfortable classroom.

The building here presented shows a room built in sections of such size as to be easily handled, capable of being bolted together, with all the joints of the sections covered. The buildings are constructed in such manner as will enable them to be readily taken apart when no longer required at one school, and moved to another. They are 24 ft. by 36 ft. inside measurement, with a clear story height of 12 ft. The floor is constructed in eight sections, the sides in six sections, the ends in four sections, and the pitched roof in sixteen sections. Each section is built upon frames which are readily bolted together in such manner as to make a perfectly tight and secure room. All joints between the sections are covered both inside and out by movable pieces secured with screws. They are heated and ventilated by an indirect furnace, with double casing. The fresh air is taken directly from the outside, which supply cannot be cut off by the teacher. The vent is erected at the opposite end of the room from

the furnace, and the draft of the vent is induced by carrying the smoke pipe from the furnace through the upper part of the vent flue. This not only makes a perfect method of ventilation, but effectually prevents any possibility of fire from the furnace smoke pipe. A test of the ventilation of the first room set up shows that the air of the room is being changed every 9:74 minutes, thus supplying each of the pupils with 16 cubic feet of fresh, warm air per minute. These rooms are fitted with sixty adjustable desks, and in all respects make a satisfactory and comfortable school room. Their cost has been about \$850, ready for the school furniture.

#### School Grounds.

Believing that a large, well located site is a wise investment, the Board of Education has purchased generous sites for all its new school buildings. This has enabled us not only to provide ample playgrounds, but has given an opportunity, in a modest way, for making our school grounds object lessons of refined civic taste in the art of landscape gardening. Each school ground can thus be made to present to the juvenile mind some distinct instructive feature, awakening an interest in the knowledge of decorative plants and their use in the embellishment of the home and city at large. Thus the school grounds may be made an important factor in the educational system of our city.

In conclusion, the author would respectfully direct attention to the effort put forth in this work, to individuality, and to the absence of any straining for effect not justified by the function expressed in the plan, in the belief that buildings so expressed will more nearly fulfill their purpose as part of our educational system.

Detroit, Mich. The courts have decided that the rule by which teachers may be dismissed by the board upon receiving thirty days' notice is legal. The contract upon which the decision was reached specified that she "should be subject to assignment or transfer at the discretion of the board, or to dismissal upon thirty days' notice, or at any time for wilful violation of the rules of the board, or for misconduct or incompetency." The contract bound also the teacher to give one month's notice of intended resignation.

Chicago, Ill. The board recently adopted the following rule regarding the physical examination of teachers:

All candidates for certificates to teach in the public schools of Chicago or to enter the Normal school shall be required to pass a physical examination and as the result of the physical examination they shall be divided by the medical examiners into two groups, as follows:

Group I. shall consist of those applicants who are physically sound or whose physical imperfections are so slight as to have no prejudicial influence on efficiency in school work. Such physical imperfections, if detected, shall be set forth fully in the examiner's report.

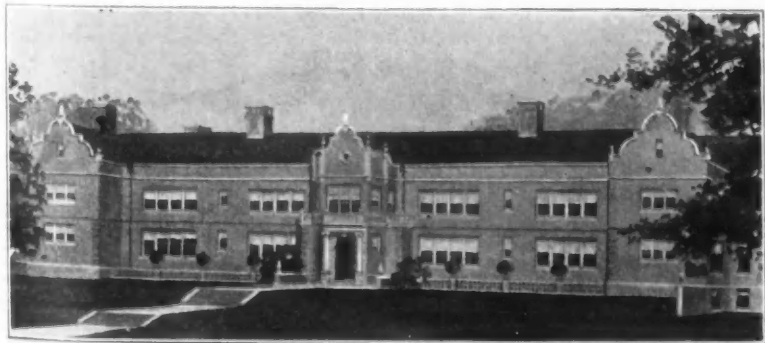
Group II. shall consist of those applicants whose physical imperfections may have prejudicial influence on efficiency in school work. Among the physical imperfections which might be or, which, if sufficiently pronounced, would be prejudicial, are, disorders of the excretory, respiratory and circulatory systems; chronic tuberculosis; severe protracted dysmenorrhoea or other serious pelvic disease; deformities; chorea and other nervous disorders, defects of sight and hearing.

All applicants falling under group I. shall be accepted.

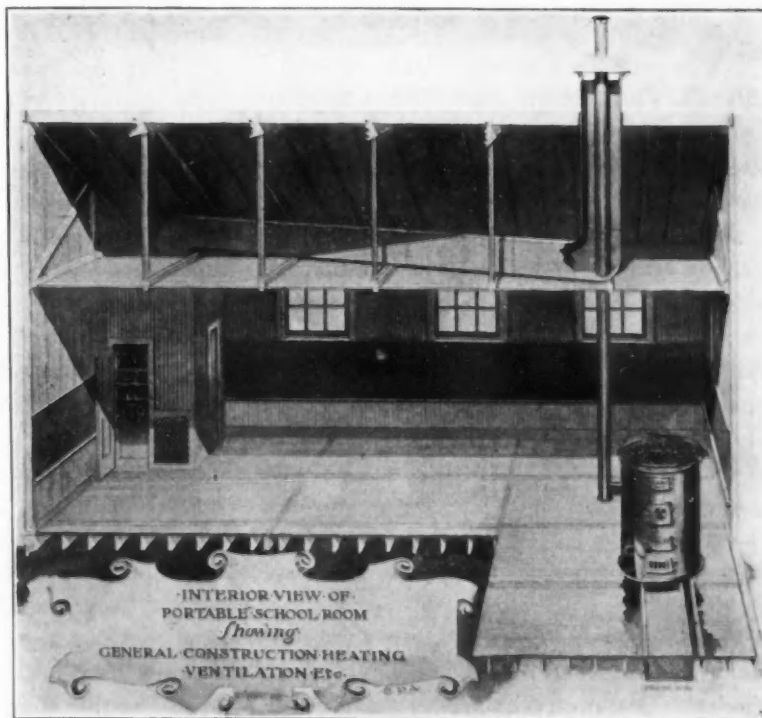
All applicants falling under group II. shall be rejected.

There shall be four consulting physicians; two on general medicine, and two on the eye, ear, nose and throat. The fee for each examination by a consulting physician shall be not more than \$5.

Columbia, Mo. The contract for installing the heating and ventilating apparatus for the new \$12,000 school building has been awarded to Lewis & Kitchen of Kansas City, Mo.



THE JAMES B. EADS SCHOOL, ST. LOUIS, MO.  
Wm. B. Ittner, Architect and Commissioner of Schools for the St. Louis School Board.



SECTION OF PORTABLE SCHOOL.

# THE AMERICAN School Board Journal

DEVOTED TO  
School Boards, School Officials and Teachers.

WM. GEO. BRUCE, Editor and Publisher.

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## POLITICIANS, HANDS OFF!

The chairman of a political party at Toledo, O., recently made the public statement that the policy of his party was to nominate a complete set of candidates for members of the Board of Education of that city.

The meaning of this declaration, as interpreted by the local press, is to the effect that the party machinery which controls all the other political jobs will henceforth control the School Board. The election will be held in connection with the fall elections and the School Board candidates will be subjected to the same hurrah, party prejudice and political gee-hawing that attends other candidates.

The school system of Toledo will suffer a tremendous setback if the School Board is relegated to the level of a city council and dragged into the nastiness of machine politics.

If members of a School Board are to be selected by a popular vote the elections should be held at other than regular political contest periods. A school election should not be crowded by, or influenced in any way, by partisan politics.

It is here, of course, hoped that Toledo's progressive citizenship will rise above partisan politics and select a School Board upon non-partisan lines, even though the candidates may be nominated upon a partisan basis. Character, ability and general fitness should and must guide the selection of School Board candidates.

## SHALL TEACHERS JOIN THE UNION?

Since the action taken by the Chicago Teachers' Federation in joining the labor unions there has been more or less discussion on the part of teachers in other cities in the direction of doing likewise. The question has been thrashed out quite thoroughly in some localities, while in others the teachers are in considerable doubt as to the wisdom of such a course.

The fact that teachers are underpaid is universally admitted. The further fact that an organized effort to secure the desired advance is more likely to be effective than a mere appeal to the school authorities would be, is also conceded.

The nub of the question is whether the educational organizations of the day should adopt unionism, and through its agency promote the material as well as the professional advancement of its adherents. The further query is

whether in the endeavor for material advantage, professional advancement is not likely to suffer.

We can readily see how the two interests might reasonably be subserved in one organization. The time and effort of educational associations would, however, have to be divided between the salary interests and the professional stimulus. The average labor organization does not make the increased efficiency and skill of its adherents a special subject for consideration only as the same may be secured through favorable conditions brought about by a better remuneration and a reduction in the hours of work. Educational associations, on the other hand, have devoted their entire efforts to the strengthening of the professional side.

The unselfish effort of the teacher to promote the cause of education through the maintenance of educational organizations is a subject which should appeal particularly to the Boards of Education. With this effort the latter have concerned themselves but little, and have, from year to year, employed teachers at a fixed salary, the basis of which is, in fact, the resultant of a supply and demand system.

Boards of Education have, with the best of intentions, fixed salaries upon an accepted basis, or a sort of settled custom, without a just appreciation for the real value of the service secured.

To break away from the "supply and demand" basis now applied to the compensation of teachers and to establish a salary schedule which shall take into consideration the teacher's educational equipment, the time, labor and expense of fitting her for the profession, the actual value of her services to the state, is a herculean task. And yet, the solution it seems to us, must eventually be found in the fairness, the equity and justice of the School Board.

Consistent with the funds at its command, consistent with the needs in the direction of buildings and equipment, and again, consistent with popular sentiment, the School Board must find a compensation center which will yield the greatest equity to both schoolmaster and taxpayer, to the pupil and to the public.

"There is no question but that organization among teachers or others who are employed is a perfectly legitimate move and ought to be beneficial," said Carroll G. Pearse, superintendent of Milwaukee schools, recently. "If teachers are underpaid, organization will benefit them, too, for it enables them to present facts and figures in a more forcible way."

"It is a question in my mind, however, whether organization among public employes in the form of a labor union is practicable. I am not sure that any organization which can issue an ultimatum and take advantage of the strike is wise among employes of the government, whether that government is national, state, county or city. For instance, I am in doubt whether it would be wise for the police,

the firemen, the clerks in the public offices, to form an organization for the purpose of naming terms to the government or dictating the government's action."

## CALIFORNIA SCHOOL ARCHITECTURE.

The proposition to build all the new schoolhouses in San Francisco, Cal., in the mission style of architecture is very properly opposed by the local architects. That style of architecture was introduced into Spain by the Moors. It is suited to the hot and dry country in which the Moors originated. It is, in fact, an evolution of the adobe, the sun-dried bricks that were mixed with straw, and by thick walls and deeply embrasured windows shut out the hot sunshine of North Africa.

When the missions entered California, says a Pacific Coast newspaper, more than a century ago, this Mooresque style came with them and seemed fitted to the hot and dry locations of the first mission stations in Southern California. The mission churches were surrounded by the adobe houses, both fitted to physical conditions. Another reason seemed to dictate the use of both styles. The thick walls were some protection against earthquakes. There is a certain romance about the mission style, but its adaptation to modern sanitary needs in such localities as San Francisco and other cool climate cities on the coast is difficult. Its inadaptation even to the purposes of church buildings is proved by the fact that it is not used in our modern churches. The old mission churches stand, some in ruins and some in restoration, as interesting monuments, but we build them no more, just as we have ceased to build adobe houses.

In this city especially, the mission style for schoolhouses is objectionable. Such buildings lack light and ventilation. In school buildings especial attention should be given to orientation. The amount and direction of light should be adapted to the preservation of the eyesight of pupils, and to their health and to that of the teachers. People spend only an hour a week in churches, and light and ventilation may be neglected there without serious injury. But the whole physical future of children and teachers is affected by the condition of buildings in which they spend five hours of every school day in the year.

A schoolhouse should have open and ample space all around it, and if it do not stand four square to the points of the compass so much the better, as the sun may then shine for part of the day in every room. It is easy to provide for the temporary exclusion of the sunshine, if that be desirable, but its effect for part of the time upon the interior of a schoolroom is the surest guarantee of the health of the inmates. Given a schoolhouse permanently shaded on three sides with rooms that never get the direct rays of the sun and there is a condition that produces anaemic and unwholesome conditions of health in pupils and teachers.

This is a country of schoolhouses. The perpetuity of our institutions in the last analysis



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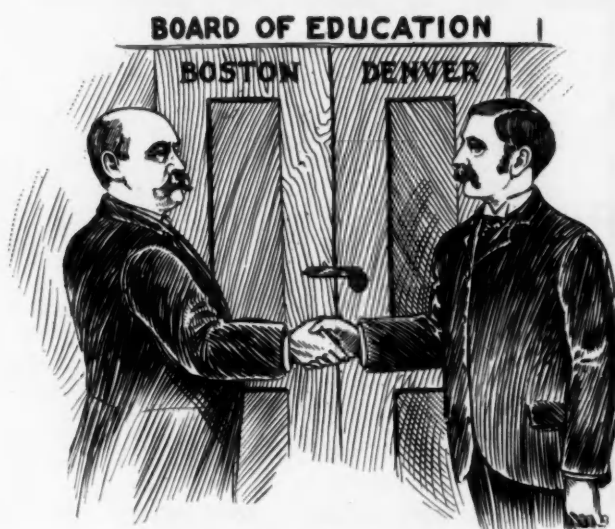




The school interests of Cleveland, Ohio, confronted with a new evil.



How the cooking school graduate helped mother during vacation.



An educational lockout for Seaver of Boston and Gove of Denver.

depends upon the work that is done in the schools. Not only must we look to the schools for minds properly trained for the high duties of citizenship, but for bodies unimpaired in that strength which must bear the burdens of that citizenship. Hence, the location and the architecture of school buildings acquire first importance. The schoolhouse should be the best building in the city in the adaptation of its architecture to secure the health and the highest physical efficiency of the pupils. All these things have been studied out and are the development of experience. The necessities of school architecture are well known and require abundance of light and the seating of pupils so that it shall reach them from the right direction and the right angle, so that the sunshine shall not harm the vision and shall also perform its proper depurating nunction.

The mission style is essentially gloomy as to its exterior. We say this without denying its picturesque effect in a proper location. We have nursed the romance that is around our ancient mission buildings. But we go to look upon them as historical monuments, the memorials of a brave and pious past, but with no desire to live in them. They are to us what the old and ruined abbeys are to England. Ivy on thick walls is an impressive but not cheer-

ful spectacle. We don't want its dampness in our houses.

The new school buildings should have air space around them, they should be of the modern metal frame style and the material used should be of light and cheerful color. They should not have many stories. We doubt whether any schoolhouse should be more than two stories in height. The climbing of long flights of stairs is not good for teachers or pupils. The floor of the first story should be far enough above the basement to secure dryness and one flight above that is enough climbing. A tall building implies greater danger in a fire or panic. Two-story houses, with ample exits and wide stairs, secure the conditions of safety that must never be lost sight of in large cities. We believe that in respect to cost, convenience, sanitation and safety the well settled styles of school architecture have the advantage over the unsuited mission architecture.

#### SEAEVER AND GOVE.

This year's crop of displaced superintendents is comparatively small. Boston and Denver are the only cities where the school boards dropped their superintendents. Both Edwin P. Seaver and Aaron Gove are men who have occupied an eminent position in the educa-

tional life of the country. They are both still in the prime of intellectual activity and have some years of useful service in them. Their displacement does not necessarily imply that they have outlived their usefulness, but may be taken merely as a result of differences between themselves and their boards. Both have held their respective positions far beyond the time usually allotted to superintendents in any one city.

Winnipeg, Man. A system of physical drill along military lines has been introduced in the schools. The drill is held twice a week for a period of one hour.

D. A. Roos, president of the public school board, speaks of the drill as follows: By the system of drill which we teach in our schools, the boys learn obedience, tidyness and alertness. They are trained to see and act quickly and on their own initiative. One cannot imagine, if one has not seen for himself, how improved they become. When drilled and taught that "obedience is the bond of rule," they are not half as troublesome as before. The consequence of this is that the teacher can make much better progress than ever.

Another thing in the favor of military drill is that it is a diversion from the daily grind at books. Scholars look forward to the drill hour with pleasure, and, of course, the best success in school work is made by getting the boys and girls to take an interest in what they are doing.



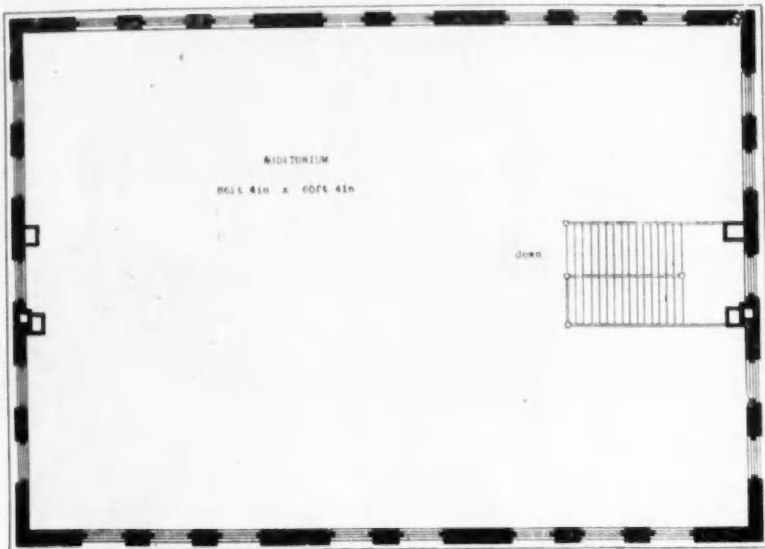
England losing more honors to the United States.



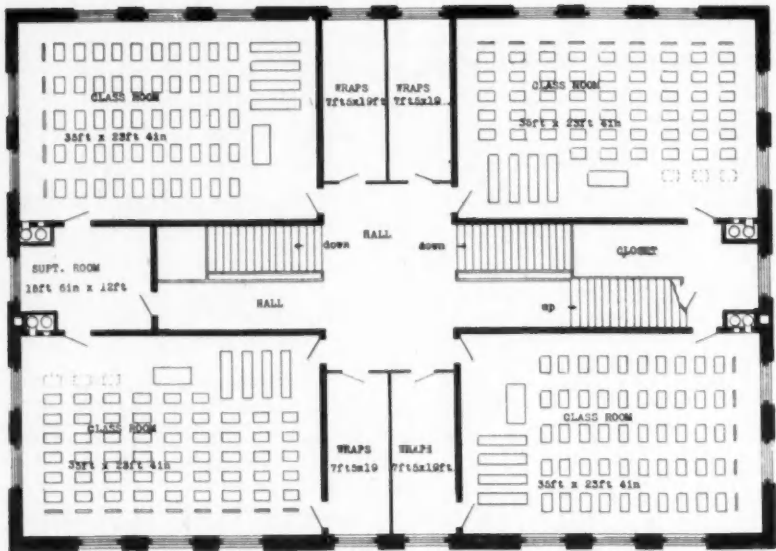
Ossian H. Lang speaks in the Forum on the American Common School.



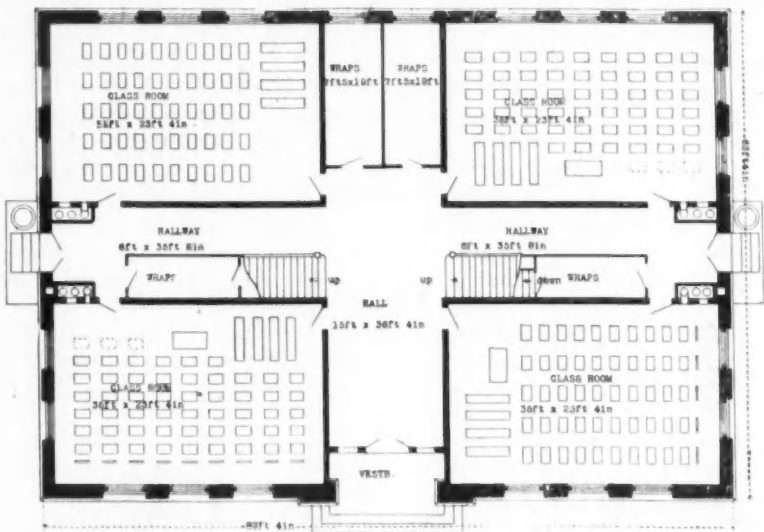
The American teacher mistrusts the claim that salaries have kept pace with living expenses.



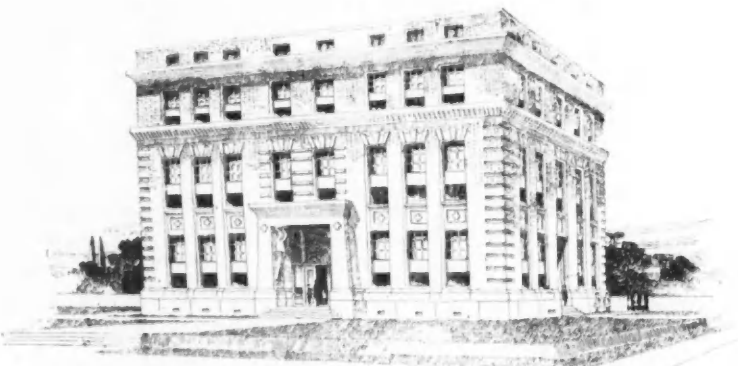
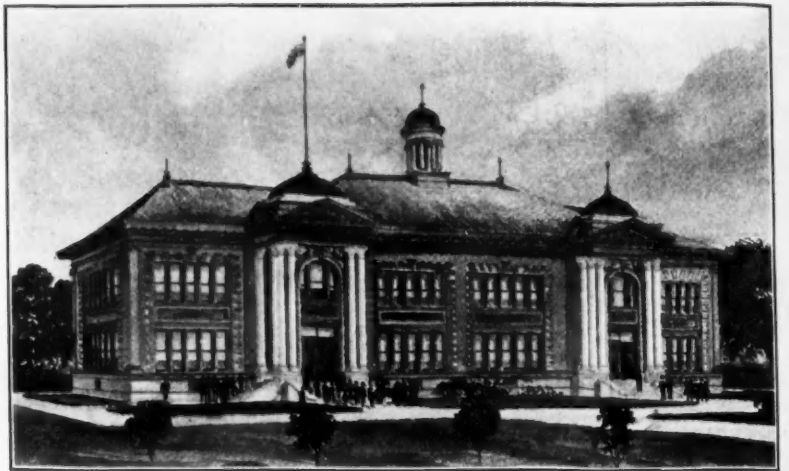
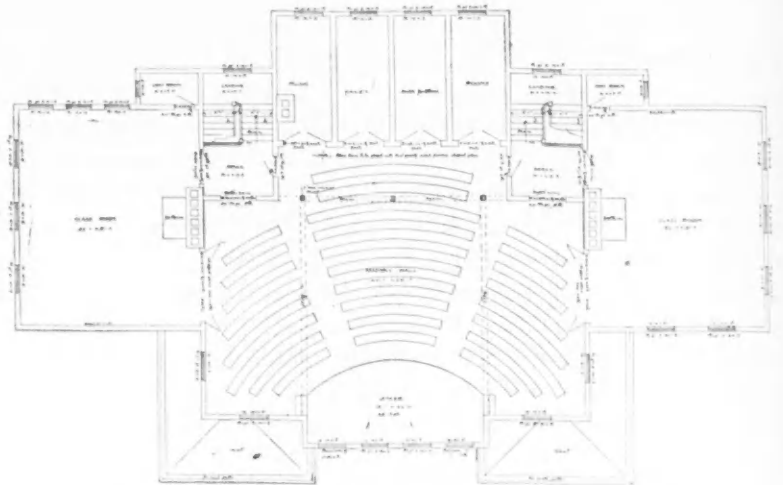
THIRD FLOOR PLAN, WINNSBORO HIGH SCHOOL.



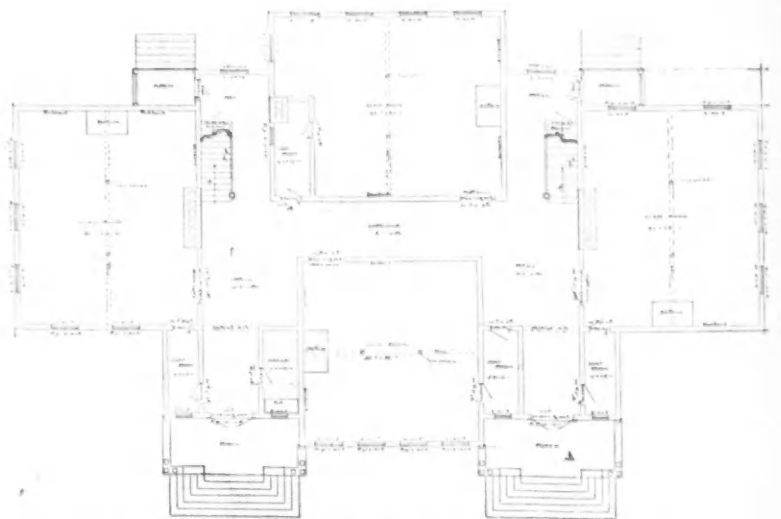
SECOND FLOOR PLAN WINNSBORO HIGH SCHOOL.



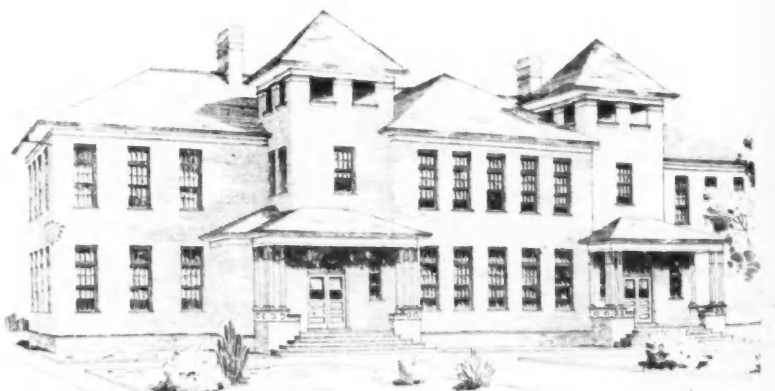
FIRST FLOOR PLAN, WINNSBORO HIGH SCHOOL.

NEW HIGH SCHOOL, WINNSBORO, TEXAS.  
Herbert C. Chivers, Architect, St. Louis, Mo.NEW SCHOOL, NACOGDOCHES, TEXAS.  
C. H. Page, Jr., Architect, Austin, Texas.

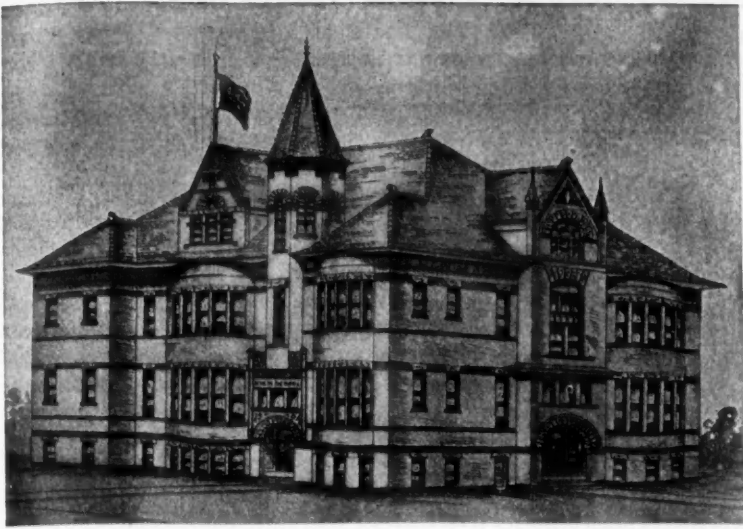
SECOND FLOOR PLAN, NEW ALBERMARLE HIGH SCHOOL.



FIRST FLOOR PLAN, NEW ALBERMARLE HIGH SCHOOL.

NEW ALBERMARLE HIGH SCHOOL, ELIZABETH, N. C.  
Charles W. Barrett, Architect, Raleigh, N. C.

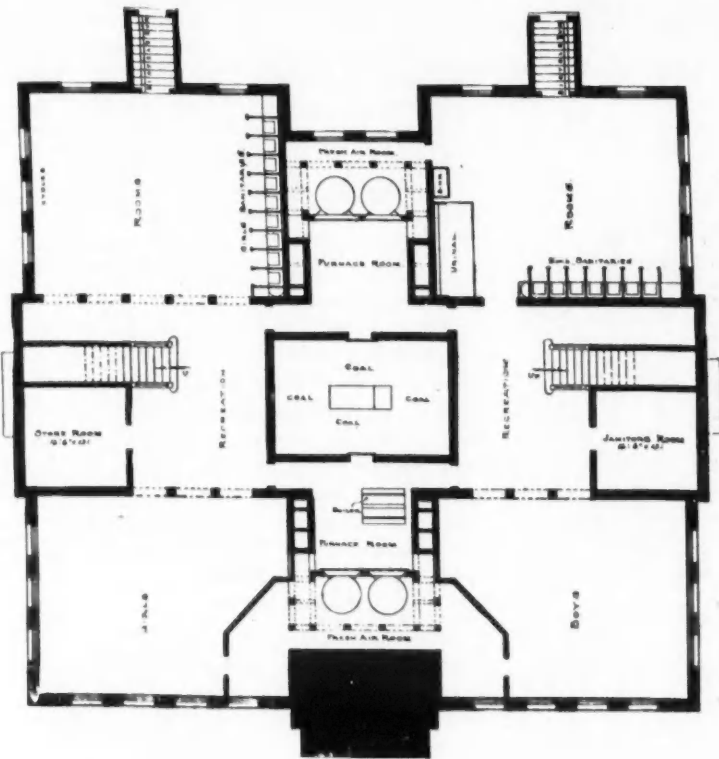




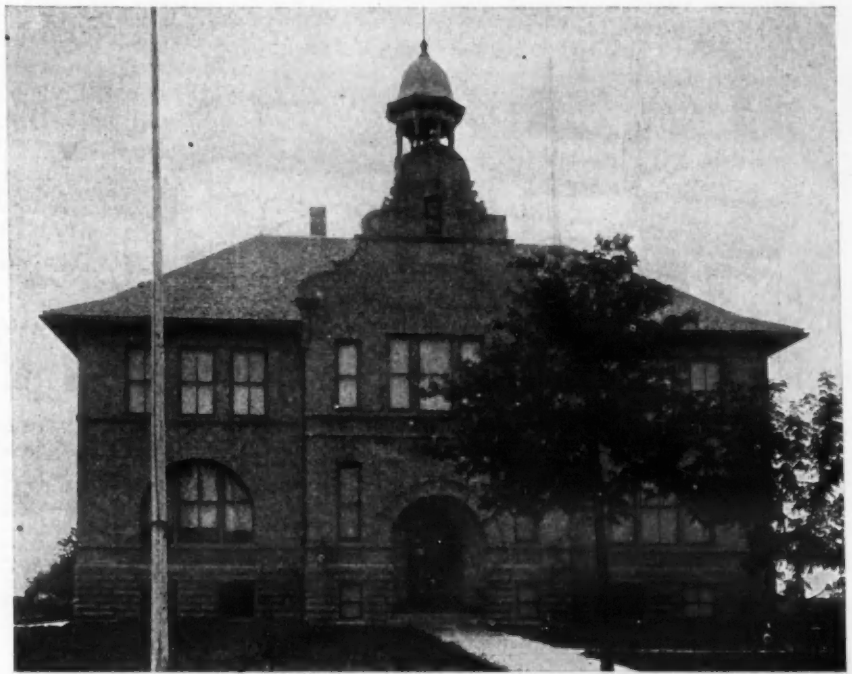
NEW HIGH SCHOOL, ASHLAND, OREGON.  
Cost \$25,000.  
Chas. H. Burggraf, Architect, Albany, Oregon.



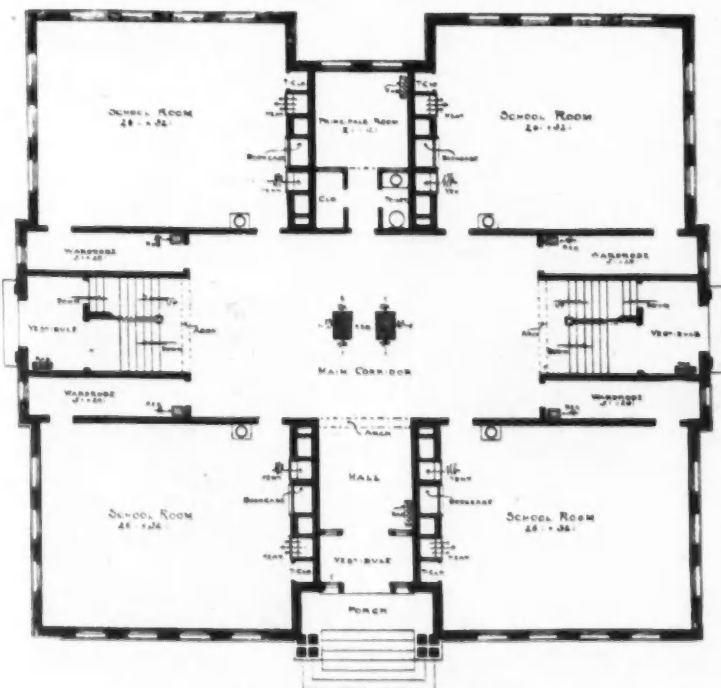
NEW SCHOOLHOUSE, EAST NORTHFIELD, MASS.  
2 Rooms 24x28. Attic Playroom, adapted for Town Assembly Hall. Cost, complete, \$4,500. Augustus Holton, Architect, Pittsfield, Mass.



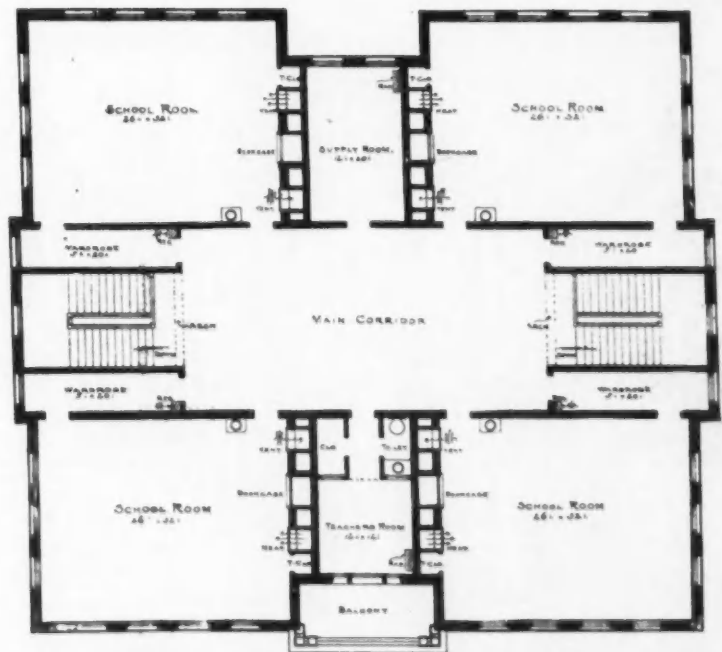
BASEMENT PLAN, JOYCE STREET SCHOOL.  
Warren, R. I.



THE PUNHOGUE SCHOOL, OSHKOSH, WIS.  
H. A. Symonds, Superintendent of Schools.

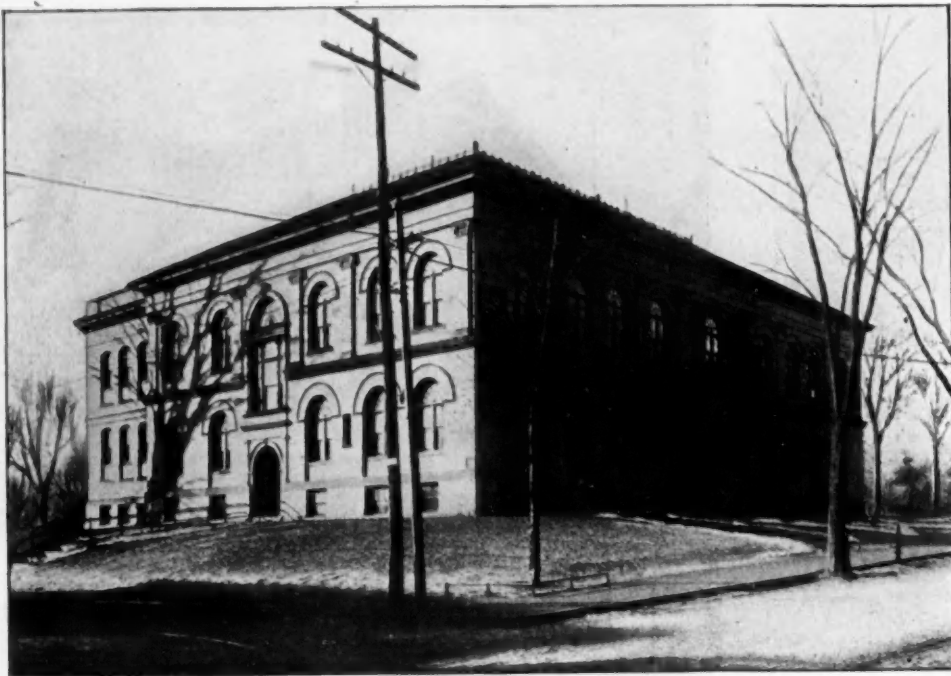


FIRST FLOOR PLAN, JOYCE STREET SCHOOL.  
Warren, R. I.

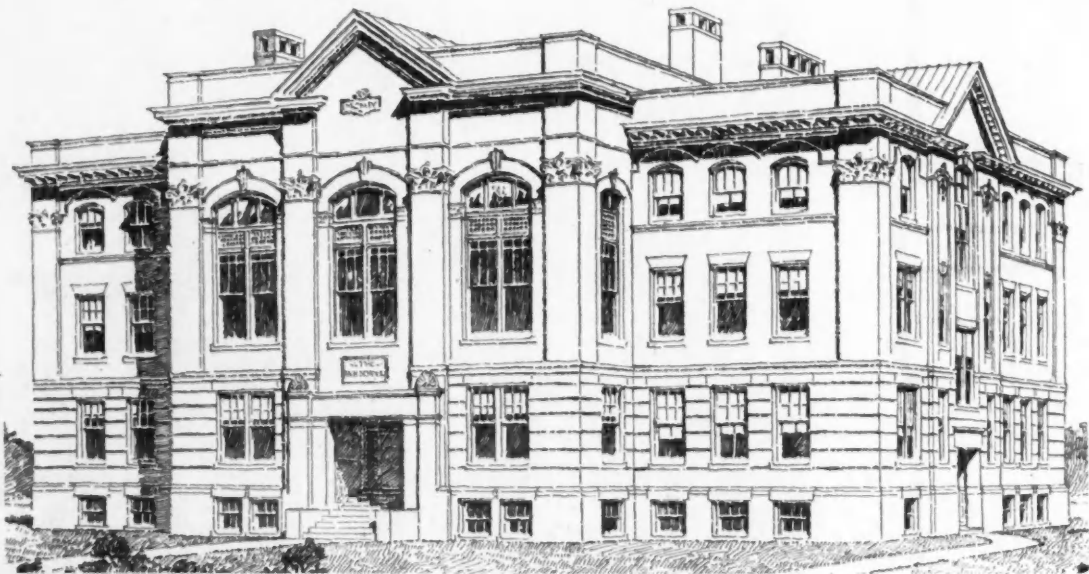


SECOND FLOOR PLAN, JOYCE STREET SCHOOL.  
Warren, R. I.

RECENT MODERN SCHOOL BUILDINGS.



NEW HIGH SCHOOL BUILDING, NORTHAMPTON, MASS.

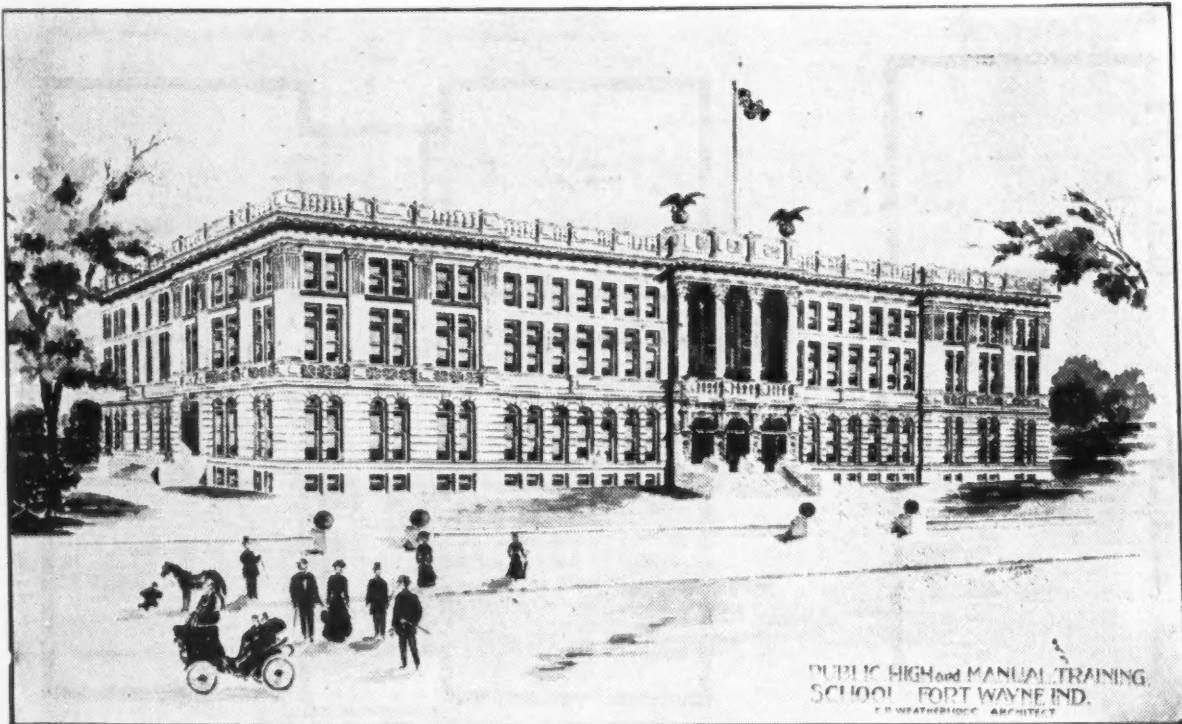


NEW HIGH SCHOOL, TURNERS FALLS, MASS.

E. C. &amp; G. C. Gardner, Architects, Springfield, Mass.

Courtesy of Frank P. Davison, Superintendent of Schools.

Cost \$55,000.



NEW HIGH AND MANUAL TRAINING SCHOOL, FORT WAYNE, IND.

J. N. Study, Supt. of Schools.

C. R. Weatherhogg, Architect.

## AMONG BOARDS OF EDUCATION.

The Board of Education of Perry County, Alabama, elected by the Perry County Educational Association, a voluntary organization, in October last, took one of its teachers out of the schoolroom and put him in the field as county superintendent to fill out the term of the old county superintendent who resigned. The new superintendent Mr. K. G. Hoover, was employed by the Board of Education for twelve months and he is expected to visit and examine each school in the county as thoroughly as possible, to speak for local taxation, consolidation of schools, better roads, better schools, longer terms and better teachers. He receives about \$500 from the State Fund, and the balance of salary, \$1,000, is made up by popular subscription. This shows the interest taken in education in Perry County, and shows that they realize that supervision is a necessity.

Grand Rapids, Mich. The following argument is used for a Domestic Science department in schools: The girl who has taken the course in domestic science, domestic art and sanitation will be well equipped for the government of a home. She will know how to cook. She will know how to economize. She will know how to sew. She will know how to decorate the home. She will know how to keep her house wholesome and sanitary.

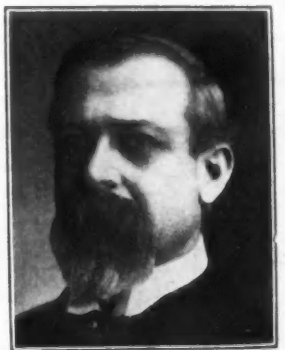
Chicago, Ill. Superintendent Cooley has recommended that bathrooms be installed in all the public schools.

Appleton, Wis. County Superintendent Meating recently said: "The teachers are all underpaid and it is because they are not working together. If they formed a union and fixed a certain price as the lowest for which they would teach they would soon receive the salaries which are rightfully theirs. It has been suggested to me that they join the labor union, but I think this would not be advisable, as the only benefit they would receive would be the influence which might come from the prominent labor union members."

Greater New York. According to the latest figures from the Department of Education, between 115,000 and 155,000 children will be in part-time classes at the opening of school next month.

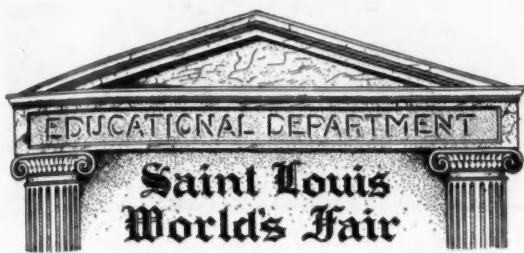
Detroit, Mich. Unless the courts decree otherwise the union labor clause will go into all school building contracts. The corporation counsel has given it as his opinion that the clause is illegal.

Georgia. The state legislature has appropriated \$1,000,000 for school purposes. The other sources of revenue will make the total state fund about \$1,850,000. The per capita increase is from \$2.25 to \$2.41.

J. N. STUDY,  
Superintendent of Schools  
Fort Wayne, Ind.

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THE GREAT FLORAL CLOCK.

The landscape gardener made the dial; the iron worker wrought the hands, and the scientist devised the mechanism that completes the greatest clock of ancient or modern times.

Thus, the remarkable time-piece at the St. Louis World's Fair is a circular bed of flowers, a monster in proportion and at the same time a mechanical wonder.

Nestled closely at the sloping hill side on the north of the Agricultural Building the floral clock spreads over a dial 112 feet in diameter. The big hands are constructed of iron weighing 2,500 pounds each. The hour hand is 50 feet in length and the minute hand 74 feet in length. The numerals are each 15 feet in length and are formed in the designs of figures consisting of beds of bright-colored coleus, a foliage plant that grows dense and may be kept symmetrical by the pruning of the gardener's shears.

On the crest of the hill three pavilions form an ornamental top piece to the clock design as a whole. These contain the mechanism which operates the clock by compressed air. A shaft 70 feet long, hidden amid the flowers and foliage passes from the pavilions to the center of the dial. The periodical release of the compressed air moves the big hands slowly, accurately and constantly.

An interesting feature of the east pavilion is an hour glass containing one hundred pounds of sand. It is shaped like the usual small hour glasses, but its unusual size and the large quantity of sand, as it pours steadily down from the upper to the lower receptacle, is an attractive novelty, seldom seen. The hour glass rests upon trunions and is automatically reversed at the end of every hour. The west pavilion holds the massive bell, weighing 5,000 pounds, together with a hammer weighing 150 pounds.

The progress of the American science as well as the enterprise of the American manufacturer in outdoing the rest of the world is the nature and scope of an undertaking, must here be acknowledged.

The inventor of the mammoth floral clock, the novelty of which lies in the fact that it obviates the heavy machinery usually found in tower clocks, is Prof. Warren S. Johnson. He has revolutionized the entire tower clock system. The ponderous wheels and numberless accessories to the tower clocks of the great public buildings of Europe and the United States have become obsolete with the Johnson system. A simple tube conveying compressed air, automatically released, thereby moving the hands on the dial, comprises practically all the mechanism which operates the clock. The new system, it is said, reduces the cost of construction as well as the operation of a large tower clock to less than one-half of the cost of the old system.

The clocks are manufactured and installed by the Johnson Service Company of Milwaukee under the personal supervision of Prof. W. S. Johnson.

The educational exhibit of the State of New Jersey was prepared and installed by Silas R. Morse, of Atlantic City, the custodian of the New Jersey State Museum. The experience of Mr. Morse at previous expositions has enabled him to arrange a most interesting display.

The exhibit of Ginn & Co. is worthy of attention. The booth is roomy and tasteful and houses samples of the long list of publications issued by the firm. The location of the exhibit is excellent and readily accessible to the visitor in the Palace of Education.

St. Louis, Mo. A novel exhibit is being held in the St. Louis city exhibit. Thirty students of the high school are conducting daily experiments in physics and chemistry, just as is done in the regular classes at the school.

A BLACKBOARD EXHIBIT.

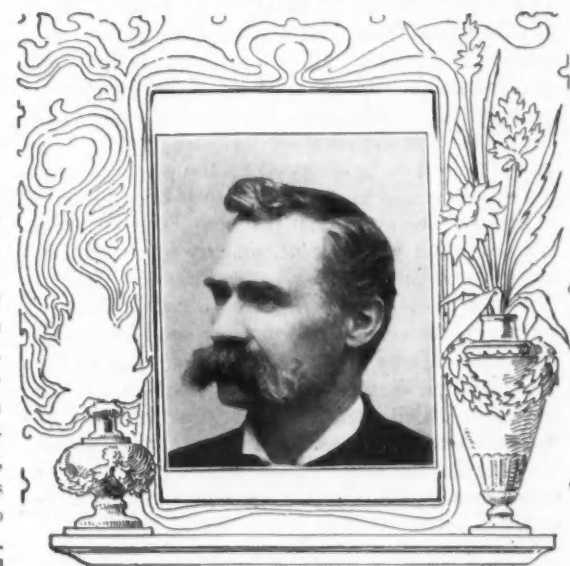
School supplies do not form one of the regular features of the exhibits in the Palace of Education. Among the things, however, coming under this heading, the series of blackboards, seven in number, invented and manufactured by Joseph Reek, of Neenah, Wis., are worthy of attention.

Mr. Reek has made the subject of artificial blackboards a life's work. His experiments cover many years and have brought under practical test almost every available ingredient or combination of ingredients likely to make a serviceable blackboard.

Thus, the seven kinds of blackboards placed on exhibition are of special interest since they represent some of the best achievements in the science of artificial blackboard manufacture.

The surface of these blackboards commands special interest and attention, first as to writing qualities and second as to erasing qualities. It is smooth and yet permits the clearest lines possible with a white or colored crayon. At the same time the surface permits an easy and perfect erasure leaving the board clean.

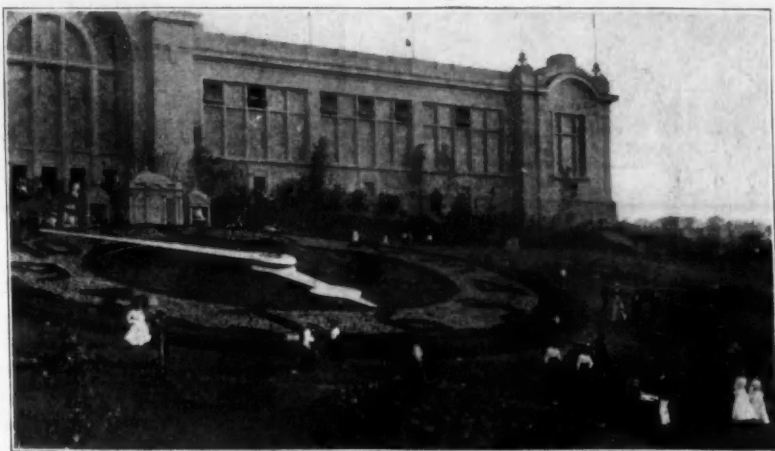
While Mr. Reek has manufactured his blackboards for many years, adding improvement upon improvement, his best products still remain to be placed upon the market in a large



MR. JOSEPH REEK.  
The Blackboard Specialist, Neenah, Wis.

and general way. The opportunity afforded here for a large industry should attract the attention of enterprising capitalists.

The exhibit is located in the Palace of Education, in the northeast corner of the building, adjoining the California, Indiana and Oregon exhibits. Architects, school officers and teachers will find themselves well repaid for their efforts in examining the blackboards.



THE FLORAL CLOCK AT THE WORLD'S FAIR.  
Installed by the Johnson Service Company.  
Dial 112 feet in diameter.

The exhibit of the great dictionary publishing house is at once tasteful and appropriate. The display of the various Webster dictionaries does not necessarily occupy much floor space. The company's famous volumes are, however, neatly displayed, in several editions, on bookholders and in a rich, glass showcase. The wall space is most attractive. A bust of Noah Webster occupies a central place. A fac-simile oil portrait of Dr. Wm. T. Harris graces the wall immediately under the Noah Webster bust. The appropriateness of this decorative combination is at once apparent. Next to the original author we have the likeness of one of the editors of the modern editions—the greatest living educator.

It may here be said for the publishers that they are holding up the name and fame of the authors and editors of the Webster dictionaries in a dignified and worthy manner. This must be gratifying to an appreciative public.

Marshall, Mich. The board has decided to start manual training in the public schools. The work will be begun on a small scale in the first, second, third and fourth grades. Marshall will be the fourteenth city in the state to institute this work.



EXHIBIT OF GINN & COMPANY.  
Palace of Education, St. Louis World's Fair.





(Copyright.)

# School Administration

By WILLIAM GEORGE BRUCE.

(Continued from August number.)

where such an officer does not exist, to the principal and in the rural districts to the school board or to the individual teacher.

The re-instatement of a pupil is in many localities left to the superintendent but more often in the hands of the school board or a committee thereof.

The causes which may warrant expulsion consist of dishonesty, immorality, persistent disinclination to study, wilful destruction of school property and vicious obstruction to the progress of other pupils.

**Grading.**—A leading educator says: "Bright, active, well advanced pupils are herded with dull, slow, less well advanced pupils. After three or four months it is found that the dull ones are holding the brighter ones back and the brighter ones are hurrying the slow ones forward at a pace which prevents real comprehension of what is passed over."

**Home Study.**—The question of the right of the school authorities to exact home study on the part of the pupils has frequently led to bitter controversy. As a result some boards forbid teachers to demand any home study. The general rule, however, is that the lower grades are exempted from home study while in grades from the fifth upward, it is exacted.

The board of education of Greater New York has always adhered to the following rule: No home work of any kind, except spelling and supplementary reading, shall be assigned to the pupils of any primary class. No home work requiring more than half an hour in any day, except spelling and supplementary reading, shall be assigned to the pupils in the four lower grammar grades. No home work requiring more than an hour in any one day, except spelling and supplementary reading, shall be assigned to pupils in the four highest grammar grades. The solution of mathematical problems shall not be assigned for home study in any except the second and first grammar grades.

**Medical Examinations.**—The examination of pupils usually provide for the following questions: Does the pupil habitually suffer from inflamed lids or eyes? Does a pupil fail to read a line of test type? Do the eyes and head habitually grow weary and painful after study? Is the pupil probably "cross-eyed"? Does the pupil complain of earache? Does a matter or a foul odor proceed from either ear? Does the pupil fail to hear an ordinary voice at twenty feet in an ordinary room? Does the pupil fail to hear the tick of a good-sized watch at three feet with either ear in a quiet room? Does the pupil fail to breathe properly through either nostril? Is the pupil a habitual "mouth breather"?

**Names.**—Teachers who persist in calling pupils by nicknames are liable to official decapitation. The practice is prohibited by an edict of many boards.

**Non-Residents.**—The following rules are an adaptation of those prevailing in several medium sized cities, determining when tuition fees shall be paid by non-resident pupils and when such pupils shall be exempted from their payment.

First—Under no circumstances shall a non-resident pupil be allowed to attend a city school without the payment of tuition fees if such a non-resident pupil resides in one of the towns adjoining the city within a mile of a town schoolhouse, and the branches of education

adopted to such non-resident pupil are there taught.

Second—If it appears to the satisfaction of the board that the parent or guardian of the non-resident pupil is too poor to pay tuition fees, or that the pupil is abandoned by his parents, and such a pupil is permanently living with a resident (although not formally adopted by such a resident), such pupil shall be exempted from payment of tuition fees. Affidavits of reputable citizens shall be required by the board to prove the poverty or lack of ability of the parent or guardian to pay tuition fees, otherwise such pupil although permanently living in the city with such resident, shall be compelled to pay them.

Third—Non-resident pupils whose parents pay taxes in the city on property owned in the city shall be credited on their tuition fees with the amount of the state, county and city school taxes paid by such parent the year proceeding the application for admission in the city schools of such pupils. The non-resident committee will require an affidavit of the parent, showing the amount of school tax such parent pays, and the original tax receipt from the city treasurer, or a certified copy thereof.

**Promotions.**—The following rules regarding grammar school pupils prevail in many localities: No child shall be kept over two years in any one grade, without a consultation with the superintendent.

Promotions of pupils of the first, second and third grades shall be made by the teachers.

A monthly record shall be kept of each pupil's scholarship, which shall be the basis upon which the judgment of the teacher and superintendent shall depend in deciding upon the fitness of the pupil for promotion.

Promotions from the fourth to the eighth grades inclusive, shall be made by the principal of the school and the superintendent.

Whenever a pupil fails to perform the work of a grade faithfully, the teacher shall inform the parent or guardian, and unless there is sufficient improvement after a trial of three months to warrant the continuance in the grade, the pupil may have the approval of the principal and superintendent to be dropped to the grade below.

Grammar and high school pupils have to make a general average of 70 per cent., and to make not less than 50 per cent. on any one study, in order to be promoted or to graduate.

**Secret Societies.**—All secret organizations of pupils in the schools are usually prohibited and all organizations of any kind are subject to the control and direction of the teachers of the school in which such organizations may exist.

**Self-Government.**—The object of the system is to train the students in self-control and to exercise a good influence over good fellow students.

The usual plan of government which is confined to high schools only is one "of the students, and for the students" and gives each pupil a share in the discipline of the school. The school faculty does not control the order of the school, but the two student bodies, the senate, the house of tribunes, have sole charge of the school in this matter. The senate, the higher body, consists of two members of the faculty and two members, a boy and girl, chosen by ballot from each of the four classes of the high school proper. The senate appoints two tribunes, a boy and a girl, for each of the six periods of the school day and these tribunes,

under the supervision of the senators, control directly the order of the study hall. Both senators and tribunes must attain certain marks in their studies to fill their positions. The students from time to time are permitted to offer suggestions which may serve to remedy any weakness that may exist in the constitution. The constitution provides that "each and every student is to conduct himself and herself in good order, with courtesy, and in a gentlemanly manner, with a view always to promoting the happiness and well-being of fellow students, and to bring honor to the name of the school."

The pledge taken by the students is as follows:

(1) We will not communicate while in the school building; (2) we will keep refined position in our school seats; (3) we will cultivate a light step; (4) we will not ask for individual favors; (5) we will provide all writing paper in the morning; (6) we will make the room a place of quietude; (7) we will not allow others to be more polite to us than we are to them; (8) we will not make ourselves odious in the use of tobacco; (9) we will, on passing people on the street give them half the walk; (10) we will not jeer at any one on the street or off the street; (11) we, the gentlemen, will tip our hats to the ladies; (12) we will avoid being boisterous wherever we may be.

Educators are not agreed as to the efficacy of self-government or pupil government. While it has proven a success in some schools it has proven a failure in others. Those who favor the plan hold that nothing will teach the value of government and self control as readily as the responsibility placed upon the pupil. The opponents hold that by teaching boys and girls how to govern they must first be taught to obey. This obedience, they hold, must be exacted by adults whom they love and respect.

**RECESS.** Recess periods of fifteen minutes during the forenoons and afternoons for pupils in the primary and grades are so well established that nothing can be added here except a preference to the rules regarding them, which prevail in many localities. These not only make the necessary periods compulsory but provide that teachers must urge all pupils to participate in these periods of outdoor exercise. It devolves upon the teachers to see that the pupils put on overgarments during cold weather and to remain with them, especially with those of the primary and kindergarten grades, during the recess.

**REPORTERS.** The following rule in relation to newspaper men has proven most serviceable:

Reporters of the different city papers shall be admitted to the meetings of the board, as long as the rules touching the privileges of newspapers and reporters are faithfully observed. Such reporters may make copies and take minutes of papers and proceedings. But the presiding officer of the board for the time being may interdict the publication of any such matter until the question of leave to publish shall have been decided by the board in session. Any matter directed by the board to be withheld, or in the absence of any order on the subject by the board, then any matter directed by the presiding officer to be withheld from publication shall not be made public.

(Continued in Next Number.)





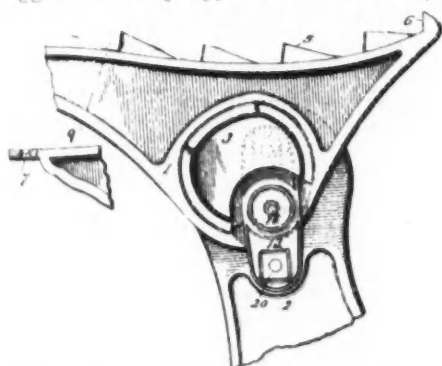
# RECENT PATENTS, SCHOOL SUPPLIES AND EQUIPMENT.

SCHOOL FURNITURE. William Collins, Frazee, Minn.



The combination with a base, a vertically-adjustable desk thereon carrying a seat-back, a socket rising from the base in advance of the desk, a standard vertically adjustable in the socket and having a sleeve at its upper end, a seat having cleats on its under side, a connecting bolt between the latter and having thereon a sleeve pivotally mounted in the sleeve on the standard, and an arm fixed at one end to the under side of the seat, and provided at its other end with a set-screw bearing against a part of the structure for enabling the seat to be adjusted at different angles vertically.

SCHOOL FURNITURE HINGE. James H. Stiggleman, Wabash, Ind., assignor to The Peabody-Stiggleman Company, North Manchester, Ind.



In a furniture-hinge, the combination of an upper and a lower section, a double trunnion-bearing on said upper section and a cup on said upper section, a trunnion-plate formed on said lower section, a removable trunnion-plate, means for securing said removable trunnion-plate to said lower section below said trunnion-bearing, a buffer or stop secured between said removable trunnion-plate and said lower section and means for securing said removable trunnion-plate to said lower section, said means passing through said buffer or stop.

## SUPPLIES AND EQUIPMENT.

Harrisburg, Pa. The Prang Educational Co. and the Milton-Bradley Co. received the contracts for drawing supplies.

Blue Earth, Minn. The board purchased 200 Andrews desks.

Detroit, Mich. The corporation counsel gave it as his opinion that the union clause in building contracts is illegal.

Kingston, N. Y. Board of education recently purchased four dozen "World's Only" Dustless Floor Brushes for use in city schools.

The Ottawa board has adopted the Dickson System of Heating and Ventilating for their new twelve-room school building. Mr. Kesson White, architect.

Plainview, Minn. The heating and ventilating apparatus installed in the new high school by Fetter-Baker-Niebuhr Co., of La Crosse, Wis. Temperature regulation by Johnson Service Co.

Springfield, O. The Ideal desk, manufactured by the American School Furniture Co. was adopted. Oscar Fisher, of Piqua, was the agent.

Yonkers, N. Y. Sanitary Dustless Floor Brushes have been ordered by the board of education.

The Holden Patent Book Cover Company, Springfield, Mass., sent out to school boards last year as many covers as would make a pile three-fourths of a mile high. Many large cities are adopting the "Holden System for Preserving Books" because they find, by trial, it increases the life of the books and keeps them clean.

New Haven, Conn. School supply contract was awarded to the Edward P. Judd Co., a local concern.

Canton, Ill. Slate blackboards were purchased from Thomas Kane & Co., of Racine, Wis. L. N. Miner, agent.

Chicago, Ill. The Atlas School Supply Co. has been organized with a capital stock of \$25,000.

Muskegon, Mich. The Superior Manufacturing Co. last month received an order for five thousand school desks from California. The big plant has recently been rushed with orders, and more than two hundred men have been kept steadily employed.

Quincy, Ill. Twelve sets of Mountjoy's American Bird and Nature Study Charts and thirty-six Manuals were ordered, at a cost of \$115.

Fort Dodge, Ia. "World's Only" Sanitary Dustless Floor Brushes will be used in the future in all school buildings.

Topeka, Kan. Contract for 720 desks went to the Superior Desk Co.

Topeka, Kan. Contract for closets in high school was awarded to Lewis & Kitchen of Kansas City.

Wichita, Kan. Contract for school desks was awarded to the Goldsmith Book & Stationery Co., a local firm.

Emporia, Kan. Supply contract was awarded to Mason McCarty, a local dealer.

Lorain, Ohio. The board has decided that all floors in the schools be oiled for the purpose of allaying dust and facilitating the sweeping of the class-rooms.

Johnstown, Pa. Sanitary Dustless Floor Brushes have recently been purchased from the Milwaukee Dustless Brush Co., Milwaukee, Wis.

South Bend, Ind. Contracts were awarded to Atkinson, Mentzer & Grover, E. W. A. Rowles, and A. Flanagan Co., Chicago.

McKeesport, Pa. The Remington and the Smith-Premier typewriters were adopted for high school use.

Jersey City, N. J. School furniture was purchased from New Jersey School-Church Furniture Co., of Trenton.

Fond du Lac, Wis. Contract for 402 seats awarded to the Superior Manufacturing Co., of Muskegon, Mich.

Topeka, Kans. Contract to supply the new high school with a system of program clocks was awarded to the Johnson Service Co., of Milwaukee. Forty-two rooms will thus be equipped at a cost of \$950. The system will be operated by means of compressed air.

Joplin, Mo. All orders for school supplies must hereafter be countersigned by the committee on supplies.

Springfield, Ill. The American School Furniture Co. was awarded the contract for furnishing 200 new desks to be used in the Bunn and Feitshans schools.

(Concluded on subsequent pages.)



Little Rock, Ark. Adopted, Smiley & Stork's Beginners' Latin, Lowe & Ewing's Caesar, Borss' Writing Latin (two books), Herrick and Damon's Rhetoric.

Carthage, Mo. Adopted, Teller & Brown's First Book in Business Methods, and Moore's New Commercial Arithmetic for the first and second years of the commercial course.

Lewistown, Me. Adopted, Wentworth & Hill's Physics, Wolfson's Ancient History.

Saginaw, Mich. Adopted, Krohn's Physiologies (two books).

Springfield, O. Adopted, Montgomery's Facts in English History.

Louisville, Ky. The changes which will be made are as follows: All readers from Harper's to McGuffey's, all arithmetics from Stoddard and White's to Ray's, Butler's grammars to Harvey's grammars, Barnes' United States History to the Eclectic History, Smith's History of Kentucky to Kincaid's, and the Natural Speller to the Modern Speller.

San Francisco, Cal. Adopted, Smith's Grammar School Arithmetic for exclusive supplementary use. Allen & Greenough's New Latin Grammar for Lowell high school.

McKeesport, Pa. Adopted, Sadler & Rowe's Budget System, Dement-Pitman Shorthand, Goodyear's Office Practice, and Benton's Book-keeping for the commercial high school course.

Indianapolis, Ind. Adopted, Moore's First Latin Book, Wrong's History of the British Nation.

Kankakee, Ill. Adopted, Krohn's Physiologies (two books).

The State Text-Book Commission of Tennessee adopted for exclusive use in the schools of the state the following books published by the J. B. Lippincott Co., of Philadelphia, Pa., namely: Worcester's New Primary Dictionary, Worcester's New School Dictionary, Worcester's New Academic Dictionary, Lippincott's Elementary Algebra.

Allen & Greenough's New Latin Grammar was adopted for the high schools of Oakland, San Jose and Sacramento, Cal.

Youngstown, O. Adopted, the New Education Readers, I. and II.

Elgin, Ill. Adopted, Wrong's History of the British Nation.

Cincinnati adopted Johnson's English and American Literature, Wolfson's Ancient History, Cheston, Dean and Timmerman's Manual of Physics, for high schools.

Indianapolis. Adopted, Sanders' Geometry and Harkness & Forbes' Caesar for Manual Training School.

San Jose, Cal. Adopted, Beman & Smith's Algebra for high school.

Monmouth, Ill. Adopted, Krohn's Physiologies (two books).

Sioux City, Ia. Adopted, Gilbert & Brigham's Physical Geography.

Alton, Ill. Adopted, Morey's Histories of Greece and Rome, the Rational Spelling Book.

Duquoin, Ill. Adopted, Baldwin's Readers.

Grand Rapids, Mich. Adopted, Redway's Commercial Geography, Todd's Astronomy, McLaughlin's American History.

St. Louis, Mo. Adopted, Barnes' Complete Typewriting Instructor by the board of education.

Lake Linden, Mich. Adopted, Barnes' Special Typewriting Instructor.

(Concluded on subsequent pages.)



F. F. Hummel has been appointed western manager of the Macmillan Company at Chicago. Mr. Hummel has hitherto acted as the Indiana agent for the company. He is an experienced field man and has demonstrated his worth as a judicious, energetic and successful bookman. His promotion has been fairly earned.

"If you can't boost, don't knock," says R. L. Bower, the Ohio agent of the American Book Co.

"The neatest piece of news I can give you," said C. H. Pugh, the Minnesota agent for D. C. Heath & Co., recently, "is the marriage of Alfred E. Logie, superintendent of the schools of Fargo, N. D." Miss Louise Merritt and Mr. Alfred E. Logie were married at high noon, Aug. 4, at the bride's home in Mt. Vernon, Ill. The bride is a niece of General Wesley Merritt, and has been the primary teacher at Fargo, North Dakota, for the past eight years and Mr. Logie went to Fargo last year as superintendent of city schools, and is re-employed for this coming year, where they will make their home. Mr. Logie came from some good town near Chicago when he went to Fargo. He has made quite a record at Fargo as an energetic schoolman that has done much toward bringing the Fargo schools up to their present proficiency." The blessings of the School Board Journal go with the young couple.

The board of education of San Jose, Cal., pays a high tribute to A. E. Shumate, now of Ginn & Co., who until recently served as its superintendent of schools. In an open testimonial it says: "A. E. Shumate was principal of the San Jose high school for a period of seven years, and during that time the school doubled in size as to attendance of pupils, number of teachers, and number of subjects accredited to the University of California. Much of this growth was due to the exceptional executive ability of the principal. Two years ago he was selected by the board to the position of city superintendent of schools of San Jose. During his two years of service in this capacity, he showed the same skill and ability to advance the educational interests of the whole department that he exercised in the management of the high school. Mr. Shumate was untiring in his labors, always affable and gentlemanly in manner. He is a man of exceptional energy and business ability."

During the recent book contest at Atlanta, Ga., A. I. Branham appeared before the board representing Stafford Nash, manager of the American Book Co.; N. C. Miller appeared for L. B. Robeson, manager of Ginn & Co.; Senator E. H. McMichael represented Maynard, Merrill & Co.; D. C. Benson represented D. C. Heath & Co.; and Frank Webb represented Silver, Burdett & Co.

C. M. Thompson, with headquarters at Wheeling, W. Va., is the new agent of the American Book Company in Eastern Ohio.

J. D. Phillips, of Houghton, Mifflin & Co., resides at Salem, Mass., where he was recently honored by an appointment on a committee to build a new high school.

James D. Crump, of Richmond, Va., who manages, in addition to his duties as president of the B. F. Johnson Publishing Co., to take an active interest in a number of Richmond's large financial institutions, has recently been elected president of the Southern Trust Company of that city.

"I will sing for you, cut a watermelon or open a keg of nails for you, but I will not tell you a story," said W. R. Andress, recently, the witty Wolverine agent for Ginn's.

Wm. E. Connelley, who was for many years with Crane & Co., the Kansas publishers, has gone into the oil business at Chanute, Kan. "If you want to get into a business that will make more money in one year than all the school journals can in five, come to Chanute and I will put you in the oil business," is the way Connelley puts it.

R. Scott Miner, of the American Book Co., spent a few days on his father's farm near Table Grove, Ill., last month, rustivating and bracing up for the fall campaign. He has charge of the commercial publications.

R. N. Pemberton, of D. C. Heath & Co., spent a part of the summer with his family in Colorado.

Mr. Turner, the Silver, Burdett & Co. agent, has had his family in Colorado since last spring. He is at present sojourning at Golden.

"The bookmen of Ohio have no superiors in any state of the Union," says C. F. Stearns, of the American Book Co. Stearns makes his home at Painesville, O., and is a battle-scarred warrior in the book field.

R. D. Ewing still represents the American Book Co. in Colorado, with headquarters at Colorado Springs. He was formerly superintendent in one of the Wisconsin cities, and began his book work with Butler, Sheldon & Co.

Mr. Otto Focht, who recently landed the state adoption for Tarr & McMurray Geographies in Tennessee, has been very sick, and is now recuperating at the Battle Creek Sanitarium.

J. Edward Smith, formerly principal of the Delaware Literary Institute, at Franklin, N. Y., has gone on the road for Silver, Burdett & Co., in the southern tier of New York.

O. J. Laylander, Ginn's Iowa man, denies that he ever thought of opening headquarters at Des Moines. He was the victim of a practical joke perpetrated by some loving friend, presumably a book man, in which a newspaper notice stated that he was in need of stenographers for his new suite of rooms in Des Moines. The result was that O. J. was flooded with applications from all the milliners and quasi typewriters known to the Iowa fraternity.

F. J. Sessions, ex-book man and schoolmaster, is now installed as superintendent of the Orphans' Home in Davenport. It is a good position and will be creditably filled by the genial Sessions.

Alexander Forbes, formerly western manager of Butler, Sheldon & Co., author of Progressive

Readers, has been engaged to conduct the teachers' institute at Cleveland this month, where in 1870-1878 he was principal of the City Normal School and assistant superintendent of public instruction.

"When I was up in Rhinelander a few days ago," said Lynn B. Stiles, Ginn's Wisconsin man, to William C. Hazard, a Silver, Burdett & Co. representative, "I noticed a cart going along the street at quite a lively rate. It was a rural mail carrier, I judged by the initials on the vehicle, R. F. D., Rural Free Delivery. I thought that the town must be quite a hustling place to have rural mail carriers so swift and energetic. Most of them that I had seen before were rather deliberate in their movements. A moment later I saw another of them jogging down the street at quite a pace and then another and another. I began to think that the afternoon mail had just come in and the rural carriers were starting for it when it struck me that the initials R. F. D. stood for Rhinelander Fire Department. And such proved to be the case. The rural mail carriers were firemen responding to an alarm."

#### JUST LIKE RELIGION.

"Book business? Book business?" repeated Mr. Stiles. "Well, the book business is like religion."

"Because you never know when you're going to get it," said Mr. Hazard quickly, as if the joke had been rehearsed for the occasion.

#### THAT EXPLAINS IT.

"What makes Chapman, of Macmillan's hold up his head so high? Been promoted to managership?"

"No! Better than that. New baby girl at his home."

(Concluded on subsequent page.)

#### MINISTER'S TRIAL.

##### Coffee Hit Him Hard Indeed.

A minister of the gospel writes about Postum: "I was for years a sufferer from headaches; sometimes they were so violent that groaning in agony I would pace the floor or garden holding my throbbing head for relief."

"I tried all sorts of remedies known to the allopathic and homeopathic schools, sometimes I thought it was caused by the stomach or biliousness, and again I would suspect it was purely nervousness, and treated myself accordingly, but nothing ever gave me permanent relief. Having to appear before the public nearly every night, it was sometimes almost impossible for me to fulfill my engagements. Finally I came to suspect that the use of tea and coffee had something to do with my disorder, and abruptly discontinued the use of both and took on Postum for a trial."

"From that happy hour I commenced to mend; gradually I got better and better and now I do not have a headache once in 6 months, and all my other troubles are gone too. I am now using Postum exclusively and want no better beverage."

"I know of others who have been benefited by the use of Postum in place of coffee. A friend of mine here in Key West, a hardware merchant, suffered for years with stomach and other troubles while he was using coffee, finally he quit and began using Postum and got well. He is devoted to Postum, and when worn and weary with business cares takes a cup of it piping hot, and in a short time feels rested and nourished."

"Some I know have become prejudiced against Postum because careless or ignorant cooks tried to make it as they would coffee and will not allow it to boil full 15 minutes, but when they try it again, well boiled, it stays, for it is as delicious and snappy as the mild, smooth, high grade Java." Name given by Postum Co., Battle Creek, Mich.

Get the little book "The Road of Wellville" in each package.



MR. F. F. HUMMEL,  
Western Manager The Macmillan Company,  
Chicago.





**Ancient History, Revised Edition.**

By P. V. N. Myers. 12 mo. Cloth, 639 pages, 12 plates. Publishers, Ginn & Co., Boston, New York, Chicago.

To those familiar with Myers' "Rome," Myers' "General History," this volume is an old friend in a fresh garb. As in the earlier work there is a rare fitness in the way events and periods are proportioned, while facts and opinions are expressed in clear, attractive English. Teachers in high schools know only too well how often the language in a history is only an obscure medium, causing much waste of time and effort.

But these fine points have been greatly enriched. As excavators and translators are constantly enlarging and revising our knowledge of Oriental nations, that portion of the book bearing upon the Orient has been almost entirely rewritten. At the close of every chapter is a list of selections from original sources, followed by references to modern authorities and topics for special study. The general bibliography gives names of publishers and the date of issue—often a valuable point.

The twenty-one colored maps are after such famous map authorities as Kiepert, Sriglin and Freeman. The one hundred and eighty-four small illustrations sustain the claim of being carefully chosen with reference to their authenticity and their value in illuminating the text. Some of these are gems in beauty and suggestiveness. Timely bits of information are given with each illustration. We are told when or where some article has been found, by whom and for what reason a bridge, arch, or building was constructed, what art gallery calls the bust or statue of some famous Greek or Roman one of its treasures. Of the twelve full-page plates two are of recent finds. The Vaphio cups were found in a tomb in Vaphio, near Sparta, in 1889, and represent the finest product of the goldsmith's art, left to our wondering eyes by the Acharan civilization of Greece. The new-found Etruscan charity, found in 1901, has re-

cently been acquired by the Metropolitan Museum of New York. These cuts are highly interesting and beautiful.

Taken all in all the book certainly meets adequately the entrance requirements of the best colleges and universities and in mechanical execution it meets the high standard of the Athenaeum press.

**Elementary Mensuration.**

By G. T. Chivers, 334 pages. Price \$1.50. Publishers, Longmans, Green & Co., London and New York.

The title is modest, perhaps misleading. Not a little solid work has been put into this book by the headmaster of F. M. Doekyard School, Pembroke, England. The main idea is that a mathematical principle is not part of one's mental furnishing until it can be readily applied. The material includes examples based upon the formula of algebra, the principles of plane and solid geometry. There are also short chapters on the mensuration of the conic section, the theorems of Gulldinus, specific gravity, with special reference to the weight of solids, and the metric system. While many formulas are demonstrated; some from their very nature must be taken on faith and used as tools. In these fourteen hundred examples one finds a strong drill-book. While much of the work is stiff, it is clearly and logically arranged.

**Grammar School Arithmetic.**

By David Eugene Smith. 12 mo., cloth, 394 pages. Publishers, Ginn & Co., Boston, New York, Chicago.

The difficulties met in training teachers develop devices that may be useful with younger pupils. Thus one natural result of this work is the preparation of text-books for secondary schools. A professor of mathematics in the teachers' college of Columbia, New York, has here continued the work begun in his primary arithmetic. In the opinion of the author its contents are sufficient for the work of the three or four years immediately preceding the high school.

The illustrations are suggestive. Pictures in connection with examples put a large meaning into the great industries in different sections of our country. Appropriate, sometimes novel designs, aid in the unfolding of simple fractions, decimal fractions, the beginning of mensuration. The suggestion that the figure should always be drawn when working examples involving principles of plane geometry is not only practical, but philosophical. Another valuable suggestion to teachers is that of having the work in neat form on paper, also a brief statement of each operation, in numbered steps, supplemented by oral analysis. The last two methods, so necessary to a pupil's understanding of the work as a whole, are often neglected. The pages upon carpeting, the laying out of land, standard time, are unusually good. Those pages devoted to business applications handle vital points in a clear, business-like fashion. Many text-books on book-keeping are no more thorough on these points.

The book is an attempt to preserve the best features of the old-style arithmetic, adding a modern arrangement and securing "mental discipline" through problems of to-day.

**Heroes of History.**

By Ida Prentice Whitecomb. Cloth, 448 pages. Publishers, Maynard, Merrill & Co., New York, Chicago, Boston.

In 1903 the New York board of education arranged a syllabus of historical and biographical manative for boys and girls. This reader follows the list then approved. Between Confucius, the Chinese teacher, and Bismarck, the German statesman, many a name long on the bead-roll of fame has been here sympathetically handled. The book is designed for a division of the fifth grade and the author has shown judgment and skill in bringing out those biographical and

dramatic elements which make the strongest appeal to the child's attention. Second as Hannibal, Siegfried, Peter the Hermit, William of Drange, will be real personages to the little people who have the good fortune to read these accurate, artistic manatives. They will wish to know more of some of these heroes and that is what the board and the author greatly desire.

Some good quotations, properly accredited, show the link between the biography of heroes and literature—"a product delicately complex made up of history past, of society present, and of the artistic individuality." The events of history are a treasure house to the painters and the sculptors. Some of these illustrations are plain photographs of buildings, but for other illustrations taken from painting or sculpture it would have been well to have given the full name of the artist. A picture may say even more to a child than to an adult, and it is desirable to form the habit of associating the name of an artist with his work.

This book is classed as one of the graded supplementary reading series. Why? Is it not good enough for daily use, or is it too good? At all events, the book is a good one.

Toledo, Ohio. "Nothing appeals more to children than nice, clean schoolrooms. It is a part of their education, and I believe that as far as possible, every room in the city should be cleaned and brightened up." So said a school director recently.

Bessemer, Mich. At a late school election in the township a complete new board of trustees was elected, it being shown that all of the old members were disqualified under the statutes, which requires that school officers must be tax payers within their townships.

Lynn, Mass. The school committee has fixed 70 years as the age at which janitors should be retired from active service.

**AS EASY.**

**Needs Only a Little Thinking.**

The food of childhood often decides whether one is to grow up well nourished and healthy or weak and sickly from improper food.

It's just as easy to be one as the other provided we get a proper start.

A wise physician like the Denver Doctor who knew about food, can accomplish wonders provided the patient is willing to help and will eat only proper food.

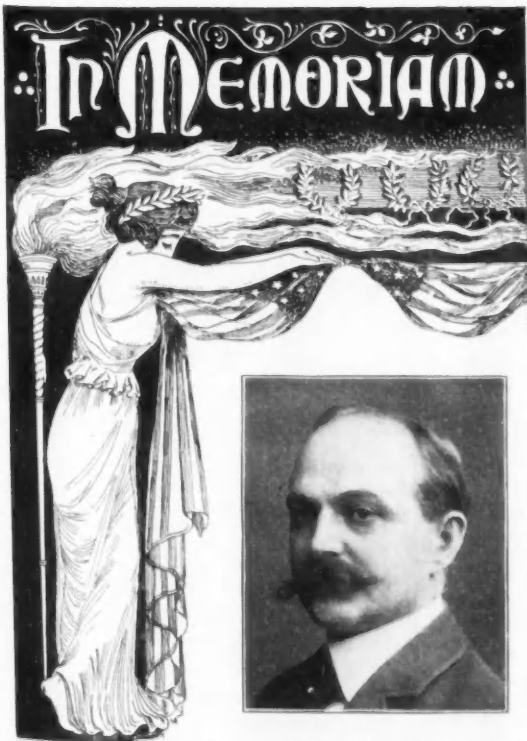
Speaking of this case the Mother said her little four year old boy was suffering from a peculiar derangement of the stomach, liver and kidneys and his feet became so swollen he couldn't take a step. "We called a Doctor who said at once we must be very careful as to his diet as improper food was the only cause of his sickness. Sugar especially, he forbid.

"So the Doctor made up a diet and the principal food he prescribed was Grape-Nuts, and the boy, who was very fond of sweet things, took the Grape-Nuts readily without adding any sugar. (Doctor explained that the sweet in Grape-Nuts is not at all like cane or beet sugar, but is the natural sweet of the grains.)

"We saw big improvement inside a few days, and now Grape-Nuts are almost his only food, and he is once more a healthy, happy, rosy-cheeked youngster with every prospect to grow up into a strong healthy man." Name given by Postum Co., Battle Creek, Mich.

The sweet in Grape-Nuts is the Nature-sweet known as Post Sugar, not digested in the liver like ordinary sugar, but pre-digested. Feed the youngsters a handful of Grape-Nuts when Nature demands sweet and prompts them to call for sugar.

There's a reason. Get the little book "The Road of Wellville" in each package.



SUPT. L. A. GOODENOUGH,  
Paterson, N. J.

Died suddenly Aug. 5, 1904, at Hamilton, N. Y.



(Continued from page 15.)

The Board of Education has awarded the contract for furniture in the new Public School 83, to the American School Furniture Company, E. J. Johnson & Co., and the New Jersey School-Church Furniture Company.

Altoona, Pa. Kindergarten supplies purchased from the Milton, Bradley Company.

Topeka, Kan. The Board of Education has placed orders for large quantities of Esterbrook pens, Eagle pens and drawing pencils, Dixon pencils and Faber pencils.

Albany, N. Y. Commissioner Draper of the State Department of Education, has appointed Frederick W. Baker special inspector of scientific apparatus in secondary schools at a salary of \$1,200 a year. Mr. Baker was employed at this work under the old Board of Regents.

Akron, Ohio. The board has purchased 150 Andrews desks from the Educational Supply Company.

Harrisburg, Pa. Desks for the schools have been purchased from the American School Furniture Company.

Denver, Colo. The Board of Education has purchased 100 manual training benches from E. H. Sheldon & Co., Chicago. Last year a similar purchase of 120 benches was made.

Rock Island, Ill. Contract for opera chairs and school desks awarded to Haney School Furniture Company, Grand Rapids, Mich.

The school departments at Malden and Westboro, Mass., have been equipped with Smith-Premier typewriters.

The Boards of Education at Kearney and Scranton, Neb., have purchased Smith-Premier typewriters.

Grand Rapids, Mich. The Board of Education has contracted for pens, pencils, penholders and erasers manufactured by the Eagle Pencil Co., New York; water color brushes, manufactured by Prang Educational Co., and raffia and rattan manufactured by Thomas Charles Co.

Bay City, Mich. The board has ordered the purchase of three Smith-Premier typewriters.

The Milwaukee Dustless Brush Co. has orders for their Sanitary Floor Brushes from the following cities: Fort Madison, Ia.; Paola, Kan.; Waverly, N. Y.; Waukegan, Ill.; Westfield, N. Y.; Nyack, N. Y.; Emporia, Kan.; Muncie, Ind.; Covington, Ohio; Oakmont, Pa.; Natrona, Pa.; Valparaiso, Ind.; Moberly, Mo.; Cedar Rapids, Neb.; Rochelle, Ill.

The present rate of increase and output of E. H. Sheldon & Co. in high grade benches and vises shows the rapid growth of the manual training movement and its substantial character. The fallacy that inferior outfits are good enough for the grade pupils—that a boy's time is not just as valuable while he is in the grades as in the high school, that he should be handicapped with facilities that are given to more mature pupils, is being exploded.

New York, N. Y. The contract for supplying furniture for the new Public school 31, Borough of Richmond, has been awarded to the American School Furniture Company.

Webb City, Mo. Desks for the schools purchased from the A. H. Andrews Co.

Los Angeles, Cal. The Board of Education has purchased five Smith-Premier typewriters for use in the commercial department of the high school.

The City of Washington, D. C., has just ordered their year's supply of Dixon pencils, which amounts to 1,300 gross of high grade goods, and nearly 1,000 pounds of the erasive rubbers.

Los Angeles, Cal. The Board of Education has let contract for the year's supplies to Devin & Rice and the Barnum Stationery Company.

Cleveland, Ohio. E. H. Sheldon & Co., Chicago, have just sold 106 rapid-acting vises for manual training work to the Board of Education. Over 400 vises made by this company are now in use in the schools.

Harrisburg, Pa. The contract for manual training benches has been awarded to Peters & Son, Philadelphia; for tools to Wm. P. Walter's Sons, Philadelphia, and Hammacher, Schlemmer & Co., New York.

Terre Haute, Ind. Contract for school supplies has been awarded to Isaac Craft.

Baltimore, Md. The board has awarded contracts for school supplies and books to W. J. C. Dulany Company, Smith-Premier Typewriter Company, Baltimore; Gaylord Bros., Syracuse, N. Y.; Sadler, Rowe Co., Baltimore; Prang Educational Co., New York, etc.

## Plaster Casts

FOR DRAWING AND MODELING:

Reproductions from Antique, Mediaeval and Modern Sculpture Etc.

SCHOOL ROOM DECORATION.

These Art Productions have never failed to receive the highest award when placed in competition with other makes.

C. Hennecke Co. Formators.

Milwaukee, - Wis.



Send for Catalogue.

Chicago, Ill. The C. H. Stoelting Co. has been awarded the contract for supplying physics supplies for the new Wendell Phillips High School.

Orders for the Holden Book Covers and Holden Quick Repairing Material are coming in from school boards from every State in the Union. Their business has grown to be a very large one because they have real merit and economy for foundation stones.

The Bowers special Tool Holders for manual training schools are manufactured by Chandler & Barber of Boston. This firm manufactures and deals in benches and all sorts of tools and supplies for manual training schools.

The Columbia School Supply Co., of Indianapolis, Ind., has issued a new catalogue showing its laboratory and general supplies. The progress of this company has been a steady one. Its beginning was small, being at first the Crowell Apparatus Co. The scope of the concern, however, was widened from time to time until it was found expedient to name it the Columbia School Supply Co. The stock of the Laboratory Equipment Co., of Chicago, was recently purchased and Mr. Alfred L. Robbins, who had owned this company, was added to the Columbia personnel. The management of the company is in safe hands, experience, both professional and commercial, together with energy, honesty and judgment giving the proper momentum and direction to its work.

W. E. H. Beckley, who was for some time the president of the Standard School Furnishing Company and later with the Caxton Company of Chicago, is now with the A. Flanagan Co.



A CARLOAD OF DUSTLESS BRUSHES FOR THE JAPANESE SCHOOLS.

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The R. Q. Evans Company has closed its Green Bay, Wis., school desk plant and will now devote itself to the manufacture of opera chairs and church furniture.

Mr. Hibbard, who was formerly with the Standard School Furnishing Company, is now with the A. H. Andrews Co. of Chicago.

At a recent school convention one of the visiting superintendents said to Reed, the manager of the Dixon Pencil Company's school business: "Why do you spend so much time and money visiting these conventions and trying to interest people in the Dixon pencils, there isn't any other school pencil, is there? If there is I have never heard of it."

Cedar Rapids, Ia. The school desk contract went to the American School Furniture Company, and the teachers' desk contract to the National Publishing Company.

New York. Over \$6,000,000 worth of school building contracts are tied up through the labor troubles.

The little Color Booklet, which was gotten out by the Joseph Dixon Crucible Company this summer, has had a wonderful success. It tells a little story written in verse of how the different colors out of which the crayons were made, were brought to earth by the different spirits of the air and water. It is illustrated in color, drawn with these crayons, and criticisms from all parts of the country show that this little booklet, which is sent free to everyone for the asking, is of great help not only to the pupils, but to the teachers as well.

The high schools of Great Barrington, Mass., Long Beach and Redlands, Ca., adopted Smith-Premier typewriters.

The school boards of Hillsboro, O., Auburn, Me., and Walden, N. Y., adopted the Smith-Premier typewriters.

Altoona, Pa. The bid for heating several school buildings of the American Warming and Ventilating Company of Pittsburg was accepted.

Cripple Creek, Colo. The "World's Only" Dustless Floor Brushes have been purchased for all school buildings in the city.

Perhaps more than one would think when it is to be selected for a lead pencil. In the first place, it ought to mean something; then it ought to be applicable or suitable to the pencil, and lastly it should sound well, be not difficult to speak, and one easily remembered. All of these points have been successfully covered by the Joseph Dixon Crucible Company when they named their new pencil the Anglo-Saxon.

It is going to be very popular, as it is made in two attractive styles of finish, a light green and a deep rich purple, and comes in four grades of lead. It has the new gilt tip and red erasive rubber, and is in every sense of the word, a first-class, high-grade pencil.

West Alexandria, O. Conrad & Eidson, Eaton, O., and R. E. Edgerton, Jamestown, O., will supply desks, blackboards, etc., to the board.

Joplin, Mo. School supplies will be furnished during the coming year by T. W. Osterloh.

Books for Prince George County, Maryland, will be supplied by W. J. C. Dudley Company, Baltimore, at a discount of 16 2-3 per cent.

San Francisco, Cal. School supplies during the coming school year will be furnished as follows: Whitaker, Ray & Co., apparatus, furniture and stationery; C. F. Weber Co., furniture and apparatus; American Book Co., books; H. S. Crocker Company, stationery and apparatus.

A. E. Kaltenbrun, who was formerly connected with the Standard School Furnishing Company, and later with the American School Furniture Company, is now representing the Haney desk.

#### SUPPLIES FOR JAPANESE SCHOOLS.

The Japanese representatives at the St. Louis World's Fair are close observers and are making some important purchases of articles which they deem valuable and necessary to the progress of the Orient.

It was not supposed, however, that American school supplies would come within the immediate attention of the official agents of the Japanese government, since many of the school conditions of that country differ so widely from our own. But nothing has escaped the keen eye of the Japanese. He will examine everything and choose wisely between the desirable and the undesirable.

The methods employed in this country of cleansing school room floors has been closely observed, with the result that Sugita & Company of Tokio, the official agents of the Japanese government, have adopted what is considered by them the best, by the purchase of a carload of sanitary floor brushes.

These brushes were described in these columns some time ago. They are equipped with oil reservoirs which moisten the fibres. In the

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process of sweeping, the dust gathers into moistened earth particles instead of scattering, as is done by the dry broom method. At the same time dust or disease germs are destroyed. The reduction in the percentage of dust particles which usually permeate the air after sweeping is reduced to a minimum.

The sanitary brushes are manufactured by the Milwaukee Dustless Brush Co., Milwaukee, Wis.

#### GROWTH OF SLATE INDUSTRY.

We are informed that the Pennsylvania Structural Slate Company, of Easton, Pa., who control the output of some of the largest structural slate mills in the Bangor region, have been erecting a new mill plant, which is about completed, at a cost of nearly \$25,000.00.

This firm makes a specialty of manufacturing all kinds of structural slate, and with their present facilities will be in position to handle a larger volume of business than they have heretofore, and do so expeditiously.

The mill referred to in the first paragraph of this item is being constructed with cement floors, stone foundation brick walls, iron girders and slate roof, and all of the machinery with which it is equipped has been purchased new; furthermore, many of the machines have been made to order special for mill purposes, and when the plant is completed it will, without exception, be the finest structure and plant of this kind ever erected.

## DAILY SERVICE IN THE SCHOOL ROOM

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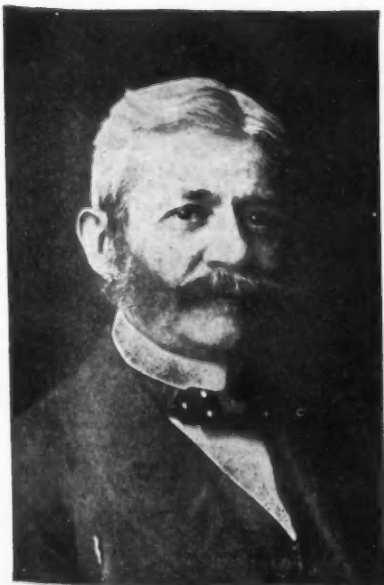
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(Concluded from page 15.)

San Francisco, Cal. At the request of the high school teachers the board adopted for use Bradbury's Elementary Chemistry and Newell's Descriptive Chemistry.

Cincinnati, Ohio. The following books have been adopted: Johnson's History of English and American Literature, Cheston Dean and Timmerman's Manual of Physics and Wolfon's Ancient History.

Freeport, Ill. Mother Tongue Book No. 2 and the "Modern" music series have been adopted by the board.

Winona, Minn. Upon recommendation of Supt. Frazier, Eggleston's New Century History has been selected for the sixth and seventh grades.

Chicago. Adopted: Tarr & McMurry Geographies, Southworth & Stone's Arithmetics of Sanborn & Co.

Oliphant, Pa. Adopted: Jones' Readers, Frye's Geography, Smith's Arithmetic, Montgomery's History, Ginn's Medial Writing, Mother Tongue Grammar, Blaisdell Physiology, Hazen's Speller.

Mankato, Minn. Adopted: Gunnison & Hazen's Latin.

Omaha, Neb. Adopted: Modern Music Course, Williams & Rogers' Bookkeeping, Webster's History of Commerce.

Springfield, Ill. County Superintendent Van Dorn recommends the following text-books for use in the schools of the county: Overton's Phy-

siology, American Work Book, Baldwin's Readers, Mother Tongue Language and Grammar, Werner's Arithmetic, Montgomery's Histories, Barnes' Copy Books, Natural Geographies.

Whitemarsh, Pa. Frye's Geographies have been adopted.

Portsmouth, O. Adopted: Ward's Primer, Mowry's First Steps in English History, Woodley & Carpenter's Grammar, Myer's Ancient History, Harris' German Lessons, Matthew's American Literature.

Pekin, Ill. Adopted: Reed's Introductory Language, Reed & Kellogg's Graded Lessons, Reed & Kellogg's High Lessons.

Chattanooga, Tenn. Thompson's History. Chattanooga, Tenn. The Board of Education voted to ignore the state law with regard to the adoption of text-books for the city schools.

The State Board of Virginia will require no bonds of the publishers who recently secured contracts to furnish school books for that state, but has served notice that it will deal summarily with any publisher whose agents attempt in any way to interfere with the adoptions as made.

A publisher who was in the recent state adoption campaign in Tennessee states that the usual charges of corruption were conspicuous for their absence throughout the campaign.

Kankakee, Wis. The grammar grades will use Krohn's physiology during the coming school year.

West Des Moines, Ia. The Smith Primary and Grammar School Arithmetics, published by Ginn & Company, adopted.

Pottstown, Pa. The text-book committee recommended that the New Educational Reader be hereafter used in all the schools. It also decided to adopt Lockwood & Emerson's Composition, and to recommend the purchase of fifty of West's Latin Grammars.

Mississippi. Under the new law the governor will shortly appoint a text-book commission. The contest for adoptions will be in a few months.

Ward's Rational Method in Reading was recently adopted in Lorain, Massillon and East Cleveland, O.

The Modern Series was adopted at Troy and Piqua, O.

Green Bay, Beloit, Ripon, Eau Clair, Wis., and Waukegan, Ill., adopted Gilbert & Brigham's Physical Geography.

Ripon, Wis. Adopted: McLaughlin's American History.

Janesville, Wis., and Aurora, Ill., have adopted Coulter's Plant Studies.

Aurora, Ill.; Butte, Mont.; Evansville, Ind., and Fergus Falls, Minn., have adopted Jordan's Animal Studies.

Ely, Minn. Adopted: Krohn's Graded Lessons in Hygiene.

Butte, Mont. Adopted: Burdick's Business Law and Adam's Commercial Studies.

Decatur, Ill. Adopted: Bradbury's Chemistry.

Pontiac, Mich. Adopted: Wrong's English History.

Cleveland, by unanimous vote, discarded free text-books in geography and spelling, after three years' trial.

Ashtabula, O. Adopted: Ginn & Company's Medial Writing Book. Wellington adopted the same.

The Ogden, Utah, high school has introduced the classics into its course in the shape of translations. They are using a considerable number of Houghton, Mifflin & Co.'s Greek and Latin Masterpieces.

Brookline, Mass., probably the richest town in New England and under the superintendency

## History, Civics, Grammar Reading

### Higginson and Channing's English History.

With bibliography, chronological table of contents, list of important dates, index, 77 illustrations, and 6 colored maps. 368 pages. Price, \$1.00, net.

Recently adopted by the State of Kansas for exclusive use in all High Schools of the state for five years.

### Smith's Training for Citizenship.

A Civics for the grades. Formerly published by the Lothrop Publishing Company. 345 pages. Price, 90 cents.

This book treats Civil Government in an entirely different way from any other work in Civics, combining, as it does, the essential elements of the subject, viewed with an historical background as a setting, and made as comprehensible as possible to the immature mind.

### Longmans' English Grammar.

A technical grammar based on the inductive method. Edited by GEORGE J. SMITH, Ph.D., member of the New York City Board of Examiners. 333 pages. Price, 65 cents.

Used by New York City public schools and adopted June 10 by the New Haven, Conn. public schools.

### Chatty Readings in Elementary Science.

Edited by A. GRACE GIBSON, Model Dept., N. Y. Training School for Teachers. Instructive lessons on the anatomy and habits of animals, wild and domestic. Teachers' notes, with summaries of lessons and blackboard work. Suitable for Third, Fourth and Fifth Grades.

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of Mr. Aldrich, of the Massachusetts State Board of Education, has introduced the Webster-Cooley Language Series.

Over twenty-five cities and towns in Massachusetts have introduced Tappan's England's Story as a text-book for upper grades. Among these places are Everett, Gardner, Lawrence and Lowell.

The instructor of the Harvard Summer School recommended Simond's History of English Literature to a good many of the teachers studying there as an excellent text-book for high school literature classes. The publishers find a goodly number of teachers asking for it on this ground.

Atlanta, Ga. White's arithmetics, the Lee readers and Roddy's geographies, all published by the American Book Company, have been adopted. The prices prevailing throughout the state were granted to the board.

Alpena, Mich. "Steps in English," two-book series of grammar and composition, has been adopted for use in the schools.

Wilmerding, Pa. Brumbaugh's Standard fourth and fifth readers and Weidenhamer's mental arithmetic adopted.

Wilkesbarre, Pa. Hyde's Lessons in English has been adopted. Prince's arithmetic and Atwood's arithmetic have been selected for supplementary use.

Savannah, Ga. The Board of Education has voted to substitute the following books for others now in use in the schools: Graded Literature series, books 1 and 2, Lee's third, fourth and fifth readers, Hyde's two-book language course and Milne's arithmetic.

Akron, Ohio. Channing's History of the United States has been adopted for high school use.

Auburn, N. Y. The text-book committee, at a recent meeting, recommended the adoption of the following books: Milne's Advanced Algebra, first year high school; Milne's Standard Arithmetic in the sixth grade, Reed's Word Lessons in the fourth, fifth and sixth grade's Kellogg's Elementary Zoology in the high school, and Redway's Commercial Geography, second year, high school. The books were adopted.

Chester, Pa. Frye's geography and Montgomery's History of the United States have been adopted by the board.

Norfolk, Va. The Augsburg system of drawing has been recommended for adoption by the committee on text-books.

Altoona, Pa. White's First Year Greek, adopted to replace White's Beginners' Greek.

Greencastle, Ind. The following books have been adopted for use in the high schools of Putnam County: Well's Essentials of Algebra; Thorpe & Rawles' Government of the United States; Houston's New Physical Geography; Howe's English Literature.

Womelsdorf, Pa. The following books have been selected: Morris' Advanced Histories, Maury's Geographies, Anderson's Junior Histories, Rand & McNally's Primary Grammars, Hull's Elementary Arithmetics, and Durrell & Robbins' School Algebra.

Aurora, Ill. Davis' Physical Geography recommended for adoption by text-book committee.

Webb City, Mo. The Natural Music System adopted.

Ginn & Co.'s Medial Writing Books adopted in Brookline, Mass. The word "Medial" as applied to a system of writing was first used by Ginn & Co.

Davenport, Ia. A set of the new Americanized Encyclopedia Britannica has been purchased.

Lima, O., adopted "Steps in English, Books 1 and 2," and "Prang's New System of Art Education."

Worcester, Mass., adopted Reed's Word Lessons for exclusive use in the grammar schools. Maynard, Merrill & Co., H. I. Smith, manager, Boston agency.

Chelsea, Mass., adopted Graded Supplementary Reading Series, published by Maynard, Merrill & Co.

The Sadler-Rowe Co., publishers of commercial text-books, Baltimore, Md., announce that they have secured the large building at No. 720 Pennsylvania Avenue, for their business, and are in first-class shape to fill all orders promptly. The business of this concern is increasing so rapidly that it now occupies three large floors, and a basement for office and shipping purposes only.

Chicago. Acting on the recommendation of Supt. Cooley, the Chicago Board of Education adopted the Southworth-Stone Arithmetics, published by Benjamin H. Sanborn & Co.

Among other adoptions of books in Paterson, N. J., were Black's Graded Readers, published by J. M. Stradling & Co., New York.

The bidders for the Iowa school library list were the A. C. McClurg Co., of Chicago; St. Paul Book Co., St. Paul, Minn.; C. A. Wise, Cedar Falls, Ia., and the Baker-Trisler Co., of Des Moines, Ia.


Oklahoma. The biennial book campaign is on. A number of agents are on the field.

The Hiawatha Primer, Literary Masterpieces, England's Story, and Colburn's Mental Arithmetic, published by Houghton, Mifflin & Co., have been adopted by the State Board of Education of Virginia.

The Ogden, Utah, High School is using Masterpieces of Greek Literature and Masterpieces of Latin Literature as class text-books. These books are published by Houghton, Mifflin & Co.

The Ohio Teachers' Reading Circle has just entered its twenty-first year with an increased membership. Among the books prescribed in the course for 1904-05 is Higginson and Boynton's Reader's History of American Literature, which is required to be read by every teacher desiring a certificate.

The Medical Writing Books have been introduced in Siskion, Humboldt, and Monterey counties, Cal.; also the city of Berkeley. Burkett, Stevens & Hill's Agriculture for Begin-



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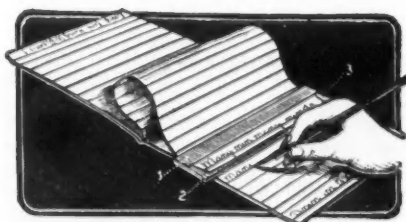
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Fig. 2. Three pieces of blotting paper 2 1/4 in. wide (card-board and blotting paper sewed together with wire thread at each end.)

Fig. 3. Copy to be written from slipped under paste-board band, and resting on blotter. As each line is written, copy is moved down, drying the writing, concealing it and placing copy just above the next line.

Published in Vertical and Slant. Orders from schools direct solicited. Price same as old style book. Samples sent free to any address on application. One hundred dollars for any old style book showing, when filled, as great a degree of improvement as shown by our system.

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ners was adopted for the schools of Sonoma, Siskion, Alameda and Los Angeles counties, Cal.

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| New Eclectic History U. S.....                      | 35                                   | 70                                     |
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## ALABAMA.

Birmingham—Site selected for high school; cost \$150,000.

## ARKANSAS.

Caddo—Voted to issue \$15,000 in bonds for erection of school. Magazine—\$5,000 school to be erected. Little Rock—Site selected on corner of Fourteenth and Scott streets for high school. Eldorado—Plans prepared by Archt. L. M. Weathers, Memphis, Tenn., for 3-story school; cost \$21,000. Hamilton—To erect school according to plans of Archt. Wm. F. Schrage, Kansas City, Mo. Holcomb—To erect school.

## CALIFORNIA.

Los Angeles—Two 2-story, 10-room schools to be erected. Fresno—School to be erected according to plans of Archt. E. W. Mathewson. Ransome—Will erect school. Lemon—Plans by Archt. C. E. Wolfe, Pomona, for additions to school. Orange—Plans prepared by Archt. A. Dudley, Los Angeles, for high school. San Diego—Teralta school district to erect school according to plans of Archts. Hebbard & Gill. Sacramento—\$200,000 in bonds to be issued for erection of high school. Glendale—Plans of Archt. C. F. Skilling, Los Angeles, accepted for \$10,000 school. Los Angeles—Plans preparing for 14-room school to replace school on Casteler street. Petaluma—School bonds to the amount of \$35,000 issued.

## COLORADO.

Denver—2-story addition to Lincoln school; cost \$25,000. Also addition to Boulevard school planned; cost \$42,000. Morrison—Industrial School for Girls to be erected at a cost of \$10,000.

## CONNECTICUT.

East Hartford—Plans preparing for school in Center district. Middletown—4-room addition planned by Archt. J. J. Dwyer, Hartford, for St. John's parochial school. New London—To erect annex to Monument street school. Middletown—12-room addition to Central school planned by Archt. W. D. Johnson, Hartford.

## GEORGIA.

Broxton—\$10,000 school under construction. Adrian—Plans by Archt. Geo. C. Thompson, Dublin, for 2-story school; cost \$8,000. Locust Grove—\$25,000 school under construction.

## ILLINOIS.

Chicago—Plans prepared by Archt. T. N. Bell for college building on Pauline street and Park avenue; cost \$10,000. Virden—School to cost \$5,000 will be erected. Hawthorne—2-story school planned by Archt. J. L. Simmons; cost \$25,000. East St. Louis—L. Pfeifferberger & Son have plans for Monroe Annex. Monee—Issued \$45,000 in bonds for erection of school. Streator—St. Anthony's school to be enlarged. Chatham—2-story school planned by Archt. Geo. H. Helmle, Springfield. Woodstock—4-room school to be erected according to plans of Archts. Bradley & Carpenter, Rockford. West Aurora—To issue \$60,000 in bonds for erection of high school. Ottawa—Archt. Kesson White to prepare plans for school. Lena—School nearing completion. Arthur—Shaw school is being enlarged. Galena—High school to be erected. Hillsboro—High school nearing completion. Brockport—To erect school. Farmington—Will erect school. Houstonville—School to be erected. Sugar Grove—To erect central high school.

## INDIANA.

San Pierre—To erect school; cost \$10,000. Vincennes—\$25,000 school will be erected. Barkley—To erect school. Haning Grove—School to be erected in Jasper county, District No. 3. Redding—To erect addition to school; cost \$2,800. St. Wendells—To erect school. Monterey—2-story, \$10,000 school will be erected. Lebanon—School to be erected in District No. 4. Fort Wayne—Archt. Robt. A. Bradley preparing school for Missionary Church Association. Franklin—Plans for 2-story school preparing by Archts. Harris & Shopbell. Hammond—Archt. Franz Roy, Chicago, Ill., has plans for \$10,000 school.

## INDIAN TERRITORY.

Broken Arrow—Plans preparing by Archt. Lee Mathews, Tulsa, for 2-story school. Indianola—Two-story, 14-room dormitory to be erected for Synodical College.

## IOWA.

River Sioux—School under construction. Hampton—To improve school at cost of \$2,500. North Page—To erect school. Lone Rock—Voted bonds to the amount of \$6,000 for erection of school. Lanesboro—Will erect school. Fonda—School to be erected.

## KANSAS.

Halstead—To erect 2-story, 8-room school. Kaw—District No. 52 to erect school. Eureka—Will erect

school. Harper—To erect school. Mission View—To erect addition to school. Leavenworth—High school nearing completion.

## LOUISIANA.

Boloxi—To erect addition to Howard primary school; cost \$2,800.

## MAINE.

Gorham—Plans preparing for erection of addition to Frederick Roble school. Bangor—High school and Pond street school to be improved. Lisbon Falls—3-story, \$12,000 school to be erected according to plans of Archt. W. R. Miller. Lewiston. Westbrook—To erect school.

## MARYLAND.

Baltimore—Specifications submitted for erection of Eastern high school. Curtis Bay—\$15,000 high school to be erected. Archt. H. G. Crisp.

## MASSACHUSETTS.

Cambridge—Archt. Geo. F. Fogerty planned 3-story, 14 room school; cost \$80,000. Aldenville—To erect addition to school. Amherst—To erect school. Northampton—Plans for erection of Hawley school completed. Beverly—To erect addition to Prospect Hill school, Ward 5. Nahant—High school under construction. Archt. L. S. Couch. New Bedford—Plans prepared by Archt. Sam'l C. Hunt for 12-room school.

## MICHIGAN.

Menominee—Archt. Derrick Hubert to prepare plans for addition to Spies avenue school. Sebewaing—Voted \$20,000 for erection of high school. Kalamazoo—West Michigan Normal school under construction. Lansing—Plans adopted for 6-room school; cost \$15,000. Clarksville—To erect school. Mason—School will be erected. Redridge—School to be erected in Stanton township. Schaffer—School to be erected. Grandledge—Will erect school in District No. 9. Wyandotte—Archt. E. J. Harding planned addition to 2d ward school. South Haven—Plans completed by Archt. A. M. Worthington for township high school. Sebewaing—Plans of Archt. E. A. Bowd, Lansing, accepted for \$20,000 school. Ludington—Will erect \$20,000 school. Saginaw, W. S.—Will erect school; cost \$21,000. Adrian—To erect addition to South Branch school. Escanaba—To erect addition to Franklin school. Wyandotte—\$30,000 high school to be erected. Archt. E. J. Harding.

## MINNESOTA.

Duluth—Plans by Archt. Charles Hutchinson for \$30,000 addition to high school. Milroy—Plans prepared by Archt. W. C. Albrant, Fargo, N. D., for 2-story school; cost \$4,500. Fergus Falls—Archt. V. A. Wright preparing plans for high school. Plans preparing by Archt. Fremont D. Orff for school; cost \$25,000. Independence—2-room addition to school. Plans preparing by Archts. Maybury & Son, St. Peter—Gustavus Adolphus College to erect building to cost \$25,000. Archts. Kinney & Detweiler, Minneapolis. Alden—To erect 2-story addition to school. Dawson—Plans by Archt. Fremont D. Orff for high school; cost \$32,000. Alden, Freeborn Co.—District No. 93 to build addition to school. Waverly—School to be erected in District No. 122. Young America—To erect school. Mankannah—School to be erected.

## MISSISSIPPI.

Greenville—Plans preparing by Archt. McDonald, Louisville, Ky., for three schools. Ackerman—School to cost \$12,000 will be erected.

## MISSOURI.

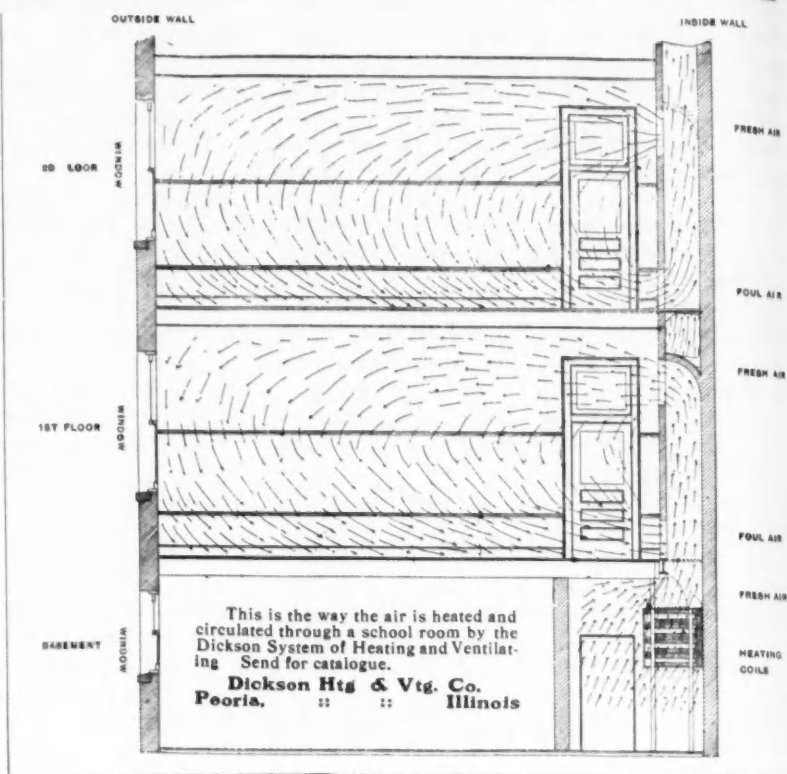
Richmond—School to be erected; cost \$12,000. Kansas City—Site selected on Nineteenth and Woodland avenue for school. West Plains—High school under construction. St. Louis—Site selected for erection of Missouri School for the Blind. Independence—Benton school nearing completion.

## MONTANA.

Missoula—Plans by Archt. J. H. Kennedy completed for high school; cost \$45,000. Troy—School to be erected.

## NEW JERSEY.

Paterson—Archt. A. O.



Bunce has plans for addition to school corner Mill and Passaic streets. Elizabeth—Plans preparing for 3-story, 12-room school by Archt. Louis Quen, Jr. Cost \$40,000. Camden—Archts. Seymour & Paul Davis, Philadelphia, Pa., planned 12-room school. Jersey City—To extend schools Nos. 8, 9, 12, 24 and 25 according to plans of Archt. John T. Rowland, Jr. Paterson—To erect parochial school according to plans of Archt. George I. Lovatt, Philadelphia; cost \$30,000. Westmont—To erect 2-room addition to school. Plainfield—Plans by Archts. Camp & Co. for school. Also to erect high school according to plans of Archt. Herbert D. Hale.

## NEW YORK.

Brooklyn—Plans by Archt. C. B. J. Snyder for \$250,000 school to be erected on Ellery street and Delmonico place. Syracuse—To erect parochial school on Emerson avenue and Schuyler street. Redhook—Plans prepared by Archt. M. O'Connor, Hudson, for \$15,000 school. Buffalo—Plans and specifications prepared for 8-room school; cost \$33,000. Long Island City, L. I.—4-story school to be erected; cost \$150,000. Jamaica, L. I.—Approved plans for \$85,000 school. New York—Plans for Stuyvesant high school on First avenue, between Fifteenth and Sixteenth streets, by Archt. C. B. J. Snyder; cost \$550,000. Also plans for \$270,000 school on corner Broome, Clark and Dominick streets.

## NORTH DAKOTA.

Finley—To erect addition to school. Green River—To erect school. Mandan—School will be erected. Sims School to be erected in Lincoln district. Menoken—School to be erected in District No. 33. Medora—School District No. 1 to erect school. Cathay—To erect school according to plans of Archt. Albrant. Arthur—Archts. Hancock Bros., Fargo, have plans for erection of school. Nesson—Two schools to be erected. Anamoose—Two schools to be erected for Rosenfield district. Bismarck—New school to be erected in District No. 53. Pleasant Lake—To erect school in Broken Bone district. Lisbon—Archt. M. A. Severson has plans for school in Allegany. Coal Harbor—To erect school in Snow school district. Leslacs—To erect school. Towner—Two schools will be erected.

## OHIO.


Howland—District No. 2 to erect school. Lancaster—High school planned by Archts. Richards, McCarty & Bulford, Columbus; cost \$35,000. Grove City—To erect school. Clark—To erect a school. West Alex-

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andria—To erect addition to school. New London—To rebuild school; cost \$20,000. Copley—Archts. Bunts & Bliss, Akron, have plans for school. Cleveland—Archt. Edwin J. Schneider has plans for several schools. Archt. Wm. R. Waterson to prepare plans for physics building on school campus, University Circle; cost \$85,000. Liverpool—Archts. Brown & Houck, Bluffton, Ind., prepared plans for school.

#### OKLAHOMA TERRITORY.

Chattanooga—Have plans for high school. Oklahoma City—Plans preparing for high school; cost \$75,000. Chillicothe—School to cost \$30,000 will be erected. Lawton—Approved plans for two schools. Mangum—\$20,000 high school will be erected. Guthrie—School to be erected in District No. 64. Marshall—Archts. E. Coady & Co., Oklahoma, have plans for 4-room school. Ponca City—To issue bonds for erection of school in District No. 63. Pawnee—School to be erected.

#### OREGON.

Forest Grove—Plans prepared for 2-story addition to school; Archt. F. M. Starrett.

#### PENNSYLVANIA.

Middletown—Will erect school on Duffy's Island. Glen Mills—Archts. Morris & Vaux have plans for school in Thornbury district. Edwinstown—Archts. Pettibone & Ireland, Wilkesbarre, Pa., planned 2-story, 4-room school. Time—To erect school. Bridgeville—To erect 12-room school; cost \$40,000. Allegheny—Archt. Fred J. Osterling planned addition to Davis avenue school; cost \$85,000. Also plans by Archt. S. T. McClarren for school on Eckert and Shady avenues. Cheltenham—Site selected for high school. Spring City—\$23,000 school to be erected. Wayne—School to be erected at Long Run. Glen Mills—Plans completed for 2-story school. Oxford—Will erect school. Washington—Site selected for school. Chester—School to be erected in Thornbury township. May's Landing—Primary school to be erected. Milton—To erect \$50,000 school. Union City—To erect high school. Monessen—\$75,000 Jefferson high school nearing completion. Blair Furnace—Archt. Frank A. Hirsh, Altoona, Pa., planned school. Lakemont Terrace—To erect school.

#### RHODE ISLAND.

Princeton—Site selected for 12-room school.

#### SOUTH CAROLINA.

Conway—Archt. H. E. Bonitz, Wilmington, N. C., planned \$10,000 school. Horrell—To erect school. Jonesville—School to be erected.

#### SOUTH DAKOTA.

Tein Brooks—To erect addition to school in District No. 1. Centerville—School under construction. Jamestown—To erect schools to cost \$24,000. Mission Hill—To erect school. Willowslake—Will erect school. Vienna—Addition to be erected to school.

#### TENNESSEE.

West Bristol—\$10,000 school to be erected.

#### VIRGINIA.

Martinsville—\$10,000 school will be erected.

#### VERMONT.

Newport Center—2-story annex to be erected according to plans of Archt. J. R. Huse, Newport.

#### WEST VIRGINIA.

Wheeling—School will be erected.

#### WISCONSIN.

Milwaukee—Plans for 3-story school by Archts. Buening & Dick; cost \$130,000. Milton—Archt. Lorin S. Hilton, Janesville, planned 2-story school. Appleton—To rebuild school in District No. 12. Paris—\$15,000 school to be erected in District No. 8. Spooner—School to be erected according to plans of Archt. Sam Snyder; cost \$15,000. Independence—Plans by Archts. C. G. Maybury & Son, Winona, Minn., for addition to school. Pine River—To erect school. McMillan—To erect addition to school. Platteville—Voted to build \$15,000 high school. South Milwaukee—Issued \$10,000 in bonds for erection of school. Marshfield—Planned addition to school. Grover—To erect school in District No. 6. Cascade—School under construction. Anderson—To erect school in District No. 6. North Bend—School to be erected. Chippewa Falls—Will erect school. Royalton—School to be erected. Wauwatosa—To issue \$30,000 in bonds for erection of high school. Stevens Point—School under construction. Pound—\$4,000 school to be erected. Campbellsport—School is being erected. Alma—\$8,000 addition to be erected to high school. Archt. Dockendorff, La

Crosse. Milwaukee—Archt. Chas. L. Lesser has completed plans for school in town of Greenfield; cost \$15,000. Riblake—Plans prepared by Archt. A. E. Parkinson, Sparta, for \$9,000 school. Beloit—To rebuild high school. Archt. Irving F. Hand. Hazelgreen—Archt. H. Kleinhammer, Platteville, planned \$10,000 school. Janesville—\$13,000 school planned by Archt. F. H. Kemp, Beloit. Stanley—School to cost \$35,000 will be erected. Antigo—Addition to high school to be erected. Milwaukee—\$60,000 school will be erected. Black River Falls—Voted to erect school.

#### WYOMING.

Sheridan—To erect addition to Linden avenue school and to North Main street school. Centennial—School to be erected.

#### UTAH.

Bingham Canyon—\$20,000 school to be erected. Archts. J. A. Headlund & Co. Ogden—Will erect addition to school according to plans of Archts. F. C. Woods & Co.

#### WASHINGTON.

Garfield—Archt. Newton C. Gauntt, Wenatchee, preparing plans for 3-story, \$8,500 school. Ritzville—Plans prepared by Archt. J. K. Dow for school. Monitor—Plans prepared by Archt. Newton C. Gauntt, Wenatchee, for school; cost \$3,500. Seattle—Site selected for school.

#### TEXAS.

Houston—High school to be repaired. Haskell—To erect school. Dallas—Site selected for Oak Cliffe school. Port Arthur—To issue \$80,000 in bonds for erection of schools. Rusk—Plans prepared by Archt. C. H. Page, Jr., Austin, for 2-story, \$12,000 school. Rodgers—\$10,000 school will be erected according to plans of Archt. C. H. Page, Jr., Austin. Texarkana—2-story industrial college to be erected. Plans by Archt. Sidney Stewart. Marshall—Archt. C. G. Lancaster planned 3-story school. Greenville—Will issue \$16,000 in bonds for school. Hondo—Bonds to the amount of \$8,000 issued for erection of school. Dallas—Plans of Archts. Hubbell & Green accepted for erection of boys' school. Santa Anna—Voted to issue \$7,000 in bonds for school.

## AMERICAN School Buildings

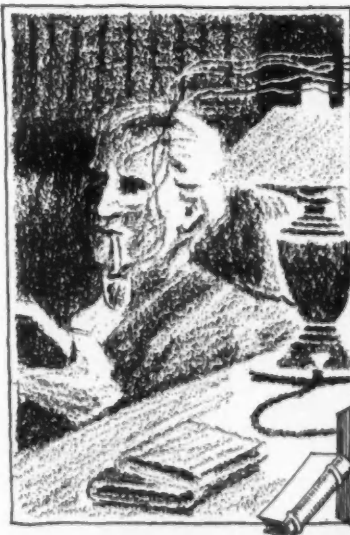
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If your druggist can't supply you we will send small bottle, prepaid, on receipt of 25 cents.

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### He Had It.

The teacher (quoting)—"Through fen and copse the whole day long sweetly echoes the bird's sweet song." Now, I would like to have some member of the class compose a sentence containing the word copse. Ah, Jeremiah, have you thought of one? Very well, let us hear it.

Jeremiah—Last night when the man what lives next door to us came home and was slamm'n' things around makin' rough house the cops come and was goin' to pinch him if it wouldn't of been for the boss of the ward.



### His Lack of Originality.

School Director—Still sitting up, dear? You shouldn't have waited for me. I was detained down town by an important school board session, and —

Young Wife—Try some other excuse, George. That's the kind father used to make.

### Ableitung.

Lehrer: "Woraus ist Dein Rock gemacht?"

Schüler: "Aus Tuch."

Lehrer: "Woraus wird das Tuch gemacht?"

Schüler: "Aus Wolle."

Lehrer: "Woher kommt die Wolle?"

Schüler: "Vom Schafe."

Lehrer: "Von welchem Thiere hast Du also Deinen Rock?"

Schüler: "Von meinem Vater!"

A new phase of the marriage question among schoolteachers has presented itself. On Saturday last a pretty young schoolma'am from Brooklyn called on Supt. Maxwell and told of three proposals which she had received within the last few weeks—or, in fact, since the rule prohibiting the teachers from marrying has been practically abolished by the board of education.

"Dr. Maxwell," she said, "do you think it would be right for me to marry them? They are all more or less impecunious, and I feel sure they are thinking of my salary more than they are of me."

Something attracted the attention of Dr. Maxwell in a passing street car at the moment and, leaning toward the window and looking into the street below, he absent-mindedly said:

"My dear Miss —, you know better than I whether or not your salary is large enough to support three of them."

"Sir!" exclaimed the young teacher, with a look of resentment that made the superintendent pull himself together and think of what he had said. He was quick to grasp the situation and to apologize, after which both had a good laugh.

Teacher—"Willie, can you tell me what an island is?"

Willie—"Yes, ma'am. It's a place you can't get away from without a boat."

"Who is the smartest boy in your class, Freddie," asked the visitor.

"I'd like to give you the desired information," replied Freddie, "but papa says I must not boast."

A merchant told the teachers in the New York Normal School at their dinner at the St. Danis the other evening a story about an old Irishwoman in Manhattan who was called upon by a census enumerator and asked questions about almost everything she ever knew, and others about many things she had never taken the time and trouble to learn. Among other things, said Mr. Baldwin, the enumerator asked:

"Have you any children, madam?"

"Yis, Soir," she replied. "I have foive of thim—two living, two dead, and one tachin' school in Brooklyn."

### Romantic Ruins Galore.

"But you have no romantic ruins," complained the foreigner.

"We haven't, eh? You come to the teachers' reception to-night and I'll show you fifty school-marms, every one of 'em a romantic ruin."

## HOW DOES THE LEAD GET INTO THE PENCIL?

This has puzzled a great many, but if you would like to know, so that you can explain it to a class, send us your name and address mentioning this ad, and we will send you a little book that tells the whole story. The process of manufacture is not the result of an inspiration, but the product of much care and skillful manipulation. If you are a teacher and will mail us this advertisement we will send you samples of our pencils so you can try them in your school and see how useful they are in the many kinds of educational work.

JOSEPH DIXON CRUCIBLE CO., Jersey City, N. J.

### A Question in Grammar.

"Will some one in the class," asked the teacher of rhetoric, "give a better form to the sentence, 'John can ride the mule if he wants to'?"

"John can ride the mule if the mule wants him to," said the boy with the bad eye.

"Have you made any good resolutions for the new school year, Bobby?" asked the teacher.

"Yes, sir; one," replied the little fellow. "I've resolved not to fight other boys."

"That's good," said the teacher. "And how did you happen to make it?"

"'Cause," answered truthful Bobby, "I always get licked."

### His Specialty.

Constituent—"Senator, how would you settle these labor disputes, if the matter devolved upon you?"

Senator Trimmur—"H'm—haw—well—er—there is a great deal that might be said on both sides of that question."

Constituent—"I know it, senator, and you're just the man that can say it!"

### At Home and At School.

His Mother (to Willie, who came from school crying)—What is the matter with mamma's poor little lamb?

Willie—The teacher called me a mutton-head.

Teacher (in spelling class)—Johnnie, spell fail.

Johnnie—I can't.

Teacher—You can't spell that simple word? Why not?

Johnnie—'Cause you told me there's no such word as fail.



Mother—Why so thoughtful? Did you accept him?

Daughter (a teacher)—Yes; I am now wondering how I can induce the school board to double my salary.

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Treatise on School House Construction. 8vo. xxi. + 441 pp. Cloth, \$4.00. First twelve chapters presented for first time. Chapters XIII. and XIV. were papers prepared for State Board of Health Reports. Chapter XV. is composed of papers originally written for architects and builders and last chapter compiled to complete series. 99 full page illustrations. Sample pages and illustrations on application. JOHN WILEY & SONS, Publishers, New York.

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John A. Johnson C. the bigness of bookme



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W. D. covering Immediate which he en, and t life was

FREE CATALOG MAILED APPLICATION

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NEW YORK



AMONG BOOKMEN.

(Concluded from page 16.)

BIGNESS OF TEXAS.

John A. Ewton, the western manager for the Johnson Company, is a very ardent advocate of the bigness and greatness of Texas. A crowd of bookmen were congratulated in the Raleigh



Hotel in Washington just after the Virginia campaign, and the conversation drifted around to the size of Texas. Ewton made this remarkable statement:

"Estimating the population of the earth at a billion and a half of people, and granting that a family of five can have sufficient

room to live and exist on a half acre of ground, Texas stands ready to divide the population of the earth into families of five and give each family a half acre of ground within its borders and then have room enough left for thirty-two million more families of the same size."

The rest of the crowd are still figuring over this rather remarkable statement, and it gradually dawns upon them that the Texas has the facts to back his assertion.

Ewton is responsible for this further evidence of the size of Texas: "According to the records on file in my office in Dallas, we sold to the children of Texas during the school year of 1903-04 over a half million readers, and we didn't sell all the readers used in the state either."

The area of Texas is 360,000 square miles;  $360,000 \times 640 \times 2 = 332,800,000$  one-half acres.  $1,500,000,000 \div 5 = 300,000,000$  families. Balance 32,000,000 families.

NICKERSON RECOVERS.

W. D. Nickerson, of D. C. Heath & Co., is recovering from an operation for appendicitis. Immediately after the Virginia campaign, in which he took an active part, he became stricken, and the case was at once so serious that his life was despaired of. A sturdy constitu-

tion, however, through which traverses the blood inherited from a sturdy Plymouth ancestry, pulled him through. He was confined to the hospital two months.

Mr. Nickerson is still very weak, but he has been enabled to rejoin his family at 99 Convent Avenue, New York City. He will rest in some quiet rural nook until he has fully recuperated.

William H. Mihills, formerly Iowa agent of Butler, Sheldon & Co., is now engaged in the laundry business at Cedar Rapids, Ia., and is making a great success of it.

C. E. Keck looks after New York State outside of the metropolis, for D. Appleton & Co. He makes his home at Syracuse.

A. E. Shumate, formerly superintendent of the San Jose, Cal., schools, has accepted a position with Ginn & Co. to represent them on the Pacific Coast. He will assist Mr. S. C. Smith, who has charge of the firm's business on the coast.

Charles S. Paige, principal of high school at Antrim, N. H., succeeds Farnk J. Sherman as New England agent for J. B. Lippincott Co. Mr. Sherman goes to work with Silver, Burdett & Co.

M. Norris, who taught at Janesville last year, has taken the field for Atkinson, Mentzner & Grover to push Shutt's Geometry especially.

Roy Hall has been working in Northern Wisconsin for the MacMillan Company during the past summer.

Henry E. Coblenz, instructor in the South Side High School, Milwaukee, has been in the Wisconsin field during the summer months for the Ginn high school list, assisting Agent Salisbury.

C. T. Baldwin has sold out his interest in the Normal Club List Subscription Agency at Mansfield, Pa., and is devoting all his time now to the interests of the Educational Publishing Co. His territory covers New York, New Jersey and Pennsylvania.

R. S. Gleason represents the American Book Co. in the two Dakotas, with headquarters at Sioux Falls.

LARGER SLEEPING CAR BERTHS.

One of the few railroad companies that owns and operates the sleeping cars in service on its lines is the Chicago, Milwaukee & St. Paul.

The sleeping cars on this line were formerly Pullman cars, operated by the Pullman Company, but for a dozen years past the railway company has owned and operated the sleeping car equipment. In building its sleeping cars, a departure from the old standard pattern of cars has been made to the extent of adding about six inches to the width and height of the sleepers. This permits of wider and higher berths. Length has also been added to berths, so that comfort is found in them which is lacking in ordinary sleeping cars.

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NEWSPAPERS IN THE SCHOOLS.

We do not approve the introduction of the daily newspaper as a text-book in the schools unless it be specially edited for that purpose.

The current events of the day offer splendid material for schoolroom study, but the reading matter should be prepared to meet the youthful mind in a manner to afford the largest service.

We heartily approve, therefore, such publications as the Little Chronicle of Chicago.

The growing number of official recognitions being received by the Little Chronicle of Chicago, whose presentation of current events from a schoolroom standpoint has demonstrated its merits in the schoolroom.

A committee appointed by the History Section of the Indiana State Teachers' Association to assist in the preparation of a new state course of study, has recommended the use of current events in connection with the study of history, endorsed the Little Chronicle as the best paper known to the committee for this purpose, and incorporated, as a part of its report, an outline on the use of current events in teaching as carried out by this paper. The State Text-Book Commission of Montana has just placed the paper on its list of supplementary readers for the use of the schools in that state for the next four years. The Little Chronicle is now used in some schools in every state, and has been officially authorized for use as supplementary reading in St. Paul, Minneapolis and several smaller cities.

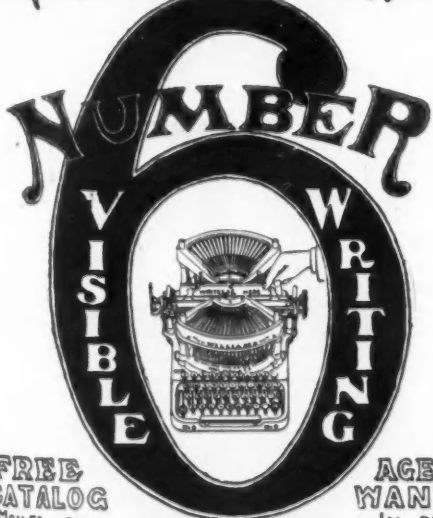
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## SUPPLIES AND EQUIPMENT.

(Concluded from preceding pages.)

South Williamsport, O. Contract for furnishing school supplies awarded to the H. G. Phillips Company.

Muskegon, Mich. The World's Best Specialty Co. offers to supply the board with 100 fire extinguishers at \$100.

Deputyville, Ill. The American School Furniture Co. has been awarded the contract for furnishing 100 oak seats for the new school-house.

South Omaha, Neb. Contract for furnishing the automatic program clock system in the high school, awarded to the Western Electrical Co., of Omaha.

Syracuse, N. Y. During a recent meeting of the Board of Education, it was recommended to enter into a contract with the A. H. Andrews Co., of Chicago, for 396 stationary desks.

Chester, Pa. The Spencer Stationery Co. and Volkhart Bros. will supply text-books and stationery for the year 1904 and 1905.

Chester, Pa. The Caxton School Supply Co., of Chicago, will furnish all the new school desks needed.

Topeka, Kan. Contracts for school supplies were awarded as follows: To the Topeka Paper Co., the contract for supplying practice paper, plain drawing paper, and heavy newspaper. To the Zercher Book Co., Esterbrook vertical pens, Dixon No. 1, Eagle School Drawing and Faber Star No. 310 pencils. To the Hall Stationery Co., Eagle Vertical Pens, Dixon High School Pencils and Crayons.

Jacksonville, Ill. The board has purchased three Smith-Premier typewriters for the high school.

Lexington, Ky. The Caxton Company, Chicago, has supplied the Board of Education with 3,500 feet of slate blackboards. Desks have been purchased from the Superior Manufacturing Company.

Arcola, Ill. American School Furniture Company has secured the contract for school desks.

Mt. Carmel, Ill. The board has awarded the contract for supplying school desks to the American School Furniture Company, Chicago.

Kansas City, Mo. Adopted, Brigham's Geology, Jordan's Animal Studies.

Hazleton, Pa. At the recent bidding for school desks P. F. Fallon represented the American School Furniture Co.; E. M. Miller, the A. H. Andrews Co., and B. D. Staughton, the Haney School Furniture Co. The Chandler desk, made by the American, and the Andrews desk was selected. The contract for recitation and opera chairs went to the Thomas Kane Co., of Racine, Wis.

Santa Ana, Cal. The Board of Education awarded the contract for supplying desks to the new Fourth Ward School to R. D. Bronson & Co., of Los Angeles. The blackboard contract was awarded to P. S. Roper & Co., of Santa Ana.

The interests of the Buffalo Fixture Works have been sold to J. A. Sauter, 145 Mayer Avenue, Buffalo, N. Y. This interest includes the manufacture of adjustable window curtains, permitting the light at the top or bottom of a window as desired.

Marion County, Ind. Adopted, for 13 high schools, Andrews' Botany, Matthews' American Literature, Halleck's English Literature, Tanner's Algebra, Sanders' Geometry, Dryer's Physical Geography, McCleary's Civics, Smiley & Stork's Beginner's Latin, Harkness & Forbes' Caesar, Harkness' Latin Grammar, Harper & Gallup's Cicero, Pearson's Latin Prose, Hoadley's Physics.

The employees of the Eagle Pencil Company have established a Mutual Aid Society. Its objects are: To take care of the sick; bury the

dead. The advantages to be derived from membership in the society appealed at once to all of the employees and they have unanimously availed themselves of the same. The beneficiary fund was the recipient of the munificent check of \$2,500.00 from the Eagle Pencil Company as a nucleus to the fund. The appreciation of the generosity of their employers was attested to by the many resolutions of thanks that were extended.

Galesburg, Ill. High school heating and ventilating contract awarded to Lewis & Kitchen, of Chicago.

Binghamton, N. Y. Six schools will be equipped with fire escapes at an expense of \$3,000.

Goodrich, Mich. Blackboards ordered from the American School Furniture Co., Chicago.

The Ideal Ventilator Co., of Providence, R. I., whose ventilators have been adopted and are being used in the public schools of Providence, R. I.; Pawtucket, R. I.; Central Falls, R. I.; Woonsocket, R. I.; Newport, R. I., have just equipped the public schools of Lowell, Mass., with their ventilators after a most thorough and practical demonstration of their system of ventilation. This system of ventilation which furnishes economical and abundant ventilation, is highly recommended for school work; one of its particular features being, that while protecting scholars from annoying and unhealthy draughts, it in no way shuts off the regular supply of light.

Chicago. The new Weber, Costello, Fricke Co. school supply factory will be 60x200 feet with a power house addition.

Colorado Springs, Colo. Adopted, Moore's First Latin Book.

Lexington, Ky. Adopted, Rolfe's Shakespeare, Eggleston's New Century History, Milnes' Acad. Algebra and Geometry, Harkness' Latin Grammar, Harkness & Forbes' Caesar, Morey's Rome and Greece, McCleary's Civics.

Grand Rapids, Mich. Adopted, Prang's Art Education, Frye's Geography (revised edition), Redway's Commercial Geography, McLaughlin's History of the American Nation, Todd's Astronomy. Supplementary reading: Stepping Stones, III.; Around the World, I.; Finch's First Reader, Tree Dwellers, Baldwin's Third Reader, Cry's Series, Lights to Literature, VIII.; Choice Literature (primary). Stories of the Romans, Eggleston's First Book.

The Educational Music Course was recently adopted in Sacramento, Redlands and San Bernardino, also in Santa Clara, Sacramento, Tulare, San Joaquin, Siskion, San Bernardino counties, all in California.

In the recent book contest in Tennessee twenty-eight houses bid and sixteen out of this number made contracts with the state. A number of houses were represented by two and three agents, so that in all there were about fifty agents or more attending the meetings of the sub-commission and the commission.

Richmond, Ind. Adopted by the county board of education, American Leaders and Heroes for fifth and sixth grades, and Sander's Civil Government.

Milwaukee, Wis. The contract for kinder-

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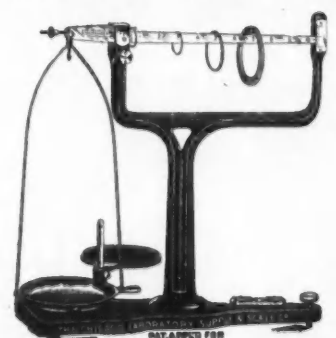
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30 Vesey St., New York.  
59 Dearborn St., Chicago.

garten song books has been awarded to the Thomas Charles Co., Chicago.

Washington, D. C. Ordered Barnes' Manuals for Business High School.

Grand Rapids, Mich. Adopted, McLaughlin's History of the American Nation, Bradbury's Elementary Chemistry.

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# Directory for School Supplies

The names given below are those of the leading and most reliable School Supply Houses in the United States. None other can receive a place in this Directory. Everything required in or about a School House may be secured promptly and at the lowest market price by ordering from these Firms.

ARCHITECTS—SCHOOL.

W E Parsons & Son Co  
Des Moines, Ia

APPARATUS—GENERAL.

The A H Andrews Co.....Chicago  
Columbia School Supply Co  
Indianapolis, Ind  
Peabody Sch. Furn. Co..N. Man-  
chester, Ind., & Topeka, Kan.  
E W A Rowles.....Chicago  
Caxton Co.....Chicago  
McConnell Sch Supply Co.....Phila  
& A Murray & Co.....Kilbourn, Wis  
Haney Sch F Co..Grand Rapids, Mich

APPARATUS—SCIENTIFIC.

Columbia School Supply Co  
Indianapolis, Ind  
O H Stoelting Co.....Chicago

BADGES.

Bunde & Upmeyer, 71-75 Wis. St.  
Milwaukee, Wis  
Fr. Koch Co.....Newark, N J  
E R Stockwell.....Ossining, N Y

BELLS—DEALERS.

The A H Andrews Co.....Chicago  
E W A Rowles.....Phila  
McConnell Sch Supply Co.....Phila  
Peabody Sch. Furn. Co..N. Man-  
chester, Ind., & Topeka, Kan.  
L A Murray & Co.....Kilbourn, Wis  
Phillips Sch Supp H.Williamsport, Pa  
Peckham, Little & Co.....New York

BLACKBOARDS—COMPO-  
SITION.

New York Silicate Slate Co New York  
O W Bardeen.....Syracuse, N Y  
The A H Andrews Co.....Chicago  
E W A Rowles.....Chicago  
Caxton Co.....Chicago  
McConnell Sch Supply Co.....Phila  
Peabody Sch. Furn. Co..N. Man-  
chester, Ind., & Topeka, Kan.  
L A Murray & Co.....Kilbourn, Wis  
Haney Sch F Co..Grand Rapids, Mich  
Am School Furn Co.....N. Y., Chicago  
Peckham, Little & Co.....New York

BLACKBOARDS—OUTLINE.

Chapman Bros. & Co.....Seattle, Wash.

BLACKBOARDS—SLATE.

J. E. Hower.....Slatington, Pa.  
Excelstor Slate Co.....Pen Argyl, Pa  
E J Johnson & Co.....New York  
Chandler Adj Chair & Desk  
Works.....Boston  
Cleveland School Furn Works N Y  
Grand Rapids School Furn Co  
Grand Rapids, Mich  
Thos Kane & Co Works,Racine, "  
The A H Andrews Co.....Chicago  
The Caxton Co.....Chicago  
E W A Rowles.....Chicago  
Columbia School Supply Co.,  
Indianapolis, Ind  
Peabody Sch. Furn. Co..N. Man-  
chester, Ind., & Topeka, Kan.  
McConnell School Supply Co.....Phila  
L A Murray & Co.....Kilbourn, Wis  
Haney Sch F Co..Grand Rapids, Mich  
N Y Silicate Book Slate Co.New York  
Phillips Sch Supp H.Williamsport, Pa  
N. J. Church School Furniture  
Co.....Trenton, N. J.  
Am School Furn Co.....N. Y., Chicago

BLANKS.

(See School Blanks.)

BLINDS.

E W A Rowles.....Chicago  
The A H Andrews Co.....Chicago  
Peabody Sch. Furn. Co..N. Man-  
chester, Ind., & Topeka, Kan.  
L A Murray & Co.....Kilbourn, Wis

BOOK-COVERS.

Holden Book Cover Co  
Springfield, Mass

BRUSHES.

(For Dustless Sweeping)  
Milw. Dustless Brush Co  
Milwaukee, Wis

CHARTS.

Peckham, Little & Co.....New York  
Scarborough Co., School Dept.  
"B"  
The A H Andrews Co.....Chicago  
Thomas Kane & Co.....Racine, "  
E W A Rowles.....Chicago  
Rand, McNally & Co.....Chicago  
The Caxton Co.....Chicago  
McConnell Sch Supply Co.....Phila  
Peabody Sch. Furn. Co..N. Man-  
chester, Ind., & Topeka, Kan.  
L A Murray & Co.....Kilbourn, Wis  
Phillips Sch Supp H.Williamsport, Pa  
Standard Cabinet Works.Buffalo, N.Y.

CLASS PINS.

Bunde & Upmeyer, 71-75 Wis. St.  
Milwaukee, Wis

CLOCKS—PROGRAM.

Columbia School Supply Co  
Indianapolis, Ind  
Fred Frick Clock Co.Waynesboro, Pa

COMMERCIAL STATION-  
ERY.

McConnell Sch Supply Co.....Phila  
The Caxton Co.....Chicago  
E W A Rowles.....Chicago

CRAYON.

Peckham, Little & Co.....New York  
The A H Andrews Co.....Chicago  
American School Furn Co  
New York, "  
Grand Rapids School Furn Co  
New York, "  
Thos Kane & Co Works  
New York, "  
Rand, McNally & Co.....Chicago  
E W A Rowles.....Chicago  
Chandler Adj Chair & Desk  
Works.....Boston  
Peabody Sch. Furn. Co..N. Man-  
chester, Ind., & Topeka, Kan.  
McConnell School Supply Co.....Phila

DIPLOMAS.

E W A Rowles.....Chicago  
McConnell Sch Supply Co.....Phila  
O W Bardeen.....Syracuse, N Y  
Phillips Sch Supp H.Williamsport, Pa

DOOR SPRINGS FOR  
SCHOOLS.

Yale & Towne Mfg Co.....New York

DRAWING SUPPLIES.

Milton-Bradley Co..Springfield, Mass  
Prang Ed Co.....Boston, N. Y. & Chi.  
E W A Rowles.....Chicago

DRAWING TABLES.

Hetterschled Mfg Co....Grand Rapids  
A. L. Bemis.....Worcester, Mass.

ENGRAVERS.

Clark Engraving Co.....Milwaukee

ERASERS.

N Y Silicate Slate Co.....New York  
Eberhard Faber.....Chicago  
O W Bardeen.....Syracuse, N Y  
The A H Andrews Co.....Chicago  
E W A Rowles.....Chicago  
Rand, McNally & Co.....Chicago  
McConnell Sch Supply Co.....Phila  
Peabody Sch. Furn. Co..N. Man-  
chester, Ind., & Topeka, Kan.  
L A Murray & Co.....Kilbourn, Wis  
Am School Furn Co.....N. Y., Chicago  
Peckham, Little & Co.....New York

FINE STATIONERY.

Bunde & Upmeyer, 71-75 Wis. St.  
Milwaukee, Wis  
Phillips Sch Supp H.Williamsport, Pa

FLAGS AND BUNTING.

(Dealers.)  
The A H Andrews Co.....Chicago  
E W A Rowles.....Chicago  
McConnell School Supply Co.....Phila  
Peabody Sch. Furn. Co..N. Man-  
chester, Ind., & Topeka, Kan.  
L A Murray & Co.....Kilbourn, Wis  
Phillips Sch Supp H.Williamsport, Pa  
Standard Cabinet Works.Buffalo, N.Y.

GLOBES.

Chandler Adj Chair & Desk  
Works.....Boston  
American School Furn Co  
New York, Chicago  
Cleveland School Furn Works  
New York, "  
Grand Rapids School Furn Co  
New York, "  
Thos Kane & Co Works  
New York, "  
The A H Andrews Co.....Chicago  
The Caxton Co.....Chicago  
E W A Rowles.....Chicago  
Rand, McNally & Co.....Chicago  
McConnell Sch Supply Co.....Phila  
Peabody Sch. Furn. Co..N. Man-  
chester, Ind., & Topeka, Kan.  
L A Murray & Co.....Kilbourn, Wis  
Phillips Sch Supp H.Williamsport, Pa  
Peckham, Little & Co.....New York  
Scarborough Co., School Dept.  
"B"  
Boston

HEATING AND VENTILAT-  
ING.

Dickson Htg & Vtg Co....Peoria, Ill  
Harry D Kirk.....Chicago  
E W A Rowles.....Chicago  
Barbour Tablet Ink Co.Evansville, Ind.

INK.

INK WELLS.

Squires Ink Well Co.....Pittsburg, Pa  
E. W. A. Rowles.....Chicago

KINDERGARTEN SUPPLIES.

Milton-Bradley Co..Springfield, Mass  
Thos Charles Co.....Chicago

LANTERN SLIDES.

McIntosh Stereopticon Co., Dept. 1  
Chicago  
E W A Rowles.....Chicago  
Phillips Sch Supp H.Williamsport, Pa

LIQUID SLATING.

E W A Rowles.....Chicago  
Phillips Sch Supp H.Williamsport, Pa

MANUAL TRAINING SUP-  
PLIES.

A L Bemis.....Worcester, Mass  
Hammacher & Schlemmer..New York  
Chandler & Barber.....Boston  
Milton-Bradley Co..Springfield, Mass  
E. H. Sheldon & Co....Evanston, Ill.

MAGIC LANTERNS.

McIntosh Stereopticon Co., Dept.  
Chicago

MAPS.

The A H Andrews Co.....Chicago  
Rand, McNally & Co.....Chicago  
E W A Rowles.....Chicago  
A. J. Nystrom & Co.....Chicago  
Caxton Co.....Chicago  
Scarborough Co., School Dept.  
"B"  
Boston  
McConnell School Supply Co.....Phila  
Peabody Sch. Furn. Co..N. Man-  
chester, Ind., & Topeka, Kan.  
L A Murray & Co.....Kilbourn, Wis  
Haney Sch F Co..Grand Rapids, Mich  
Phillips Sch Supp H.Williamsport, Pa  
Peckham, Little & Co.....New York

MEDALS.

Bunde & Upmeyer Co.....  
71-75 Wis. St., Milwaukee, Wis

OPERA CHAIRS.

A H Andrews Co.....Chicago  
Cincinnati Seating Co..Cincinnati, O.  
Am School Furn Co.....N. Y., Chicago  
Thos Kane & Co.....Racine, Wis.  
Grand Rapids School Furniture  
Works.....Grand Rapids, Mich.  
E W A Rowles.....Chicago

PENCILS.

Dixon Crucible Co....Jersey City, N J  
Eberhard Faber.....New York  
Eagle Pencil Co.....Chicago

PENCIL SHARPENERS.

F H Cook & Co.....Leominster, Mass  
E W A Rowles.....Chicago  
N Y Silicate Slate Co.....New York  
Phillips Sch Supp H.Williamsport, Pa

PENS.

(Manufacturers.)  
Eagle Pencil Co.....New York  
The Esterbrook Pen Co.....Chicago  
(Dealers.)  
Eberhard Faber.....Chicago  
E W A Rowles.....Chicago

PHYSICAL AND CHEMICAL  
APPARATUS.

Columbia School Supply Co  
Indianapolis, Ind  
E W A Rowles.....Chicago  
O H Stoelting Co.....Chicago  
L A Murray & Co.....Kilbourn, Wis  
Phillips Sch Supp H.Williamsport, Pa

PRISM GLASS.

New York Prism Co.....New York

PROJECTION LANTERNS.

McIntosh Stereopticon Co., Dept. 1  
Chicago  
E W A Rowles.....Chicago

PROGRAM CLOCKS.

Fred Frick Clock Co., Waynesboro, Pa.

PROJECTION SCREENS.

McIntosh Stereopticon Co., Dept. 1  
Chicago  
O H Stoelting Co.....Chicago

RELIEF GLOBES.

The A H Andrews Co.....Chicago  
E W A Rowles.....Chicago

RELIEF MAPS.

Central Sch Supp H..Chicago & N Y  
The A H Andrews Co.....Chicago

RUBBER BANDS.

Eberhard Faber.....New York

SANITARY APPLIANCES.

N O Nelson Mfg Co....St. Louis, Mo  
Dickson Htg & Vtg Co....Peoria, Ill

SCHOOL BLANKS.

The A H Andrews Co.....Chicago  
The Caxton Co.....Chicago  
E W A Rowles.....Chicago  
Rand, McNally & Co.....Chicago  
McConnell Sch Supply Co.....Phila  
Phillips Sch Supp H.Williamsport, Pa  
L A Murray & Co.....Kilbourn, Wis  
Am School Furn Co.....N. Y., Chicago  
Peckham, Little & Co.....New York

TYPEWRITERS.

Smith-Premier Typewriter Co  
Syracuse, N Y  
Williams Typewriter Co.Derby, Conn.

WINDOW SHADES.

E W A Rowles.....Chicago

SCHOOL FURNITURE.

N. J. School-Church Furniture Co.  
Trenton, N. J.  
Chandler Desk & Seat Co.....Boston  
Am School Furn Co  
New York, Chicago  
The Caxton Co.....Chicago  
The A H Andrews Co.....Chicago  
E W A Rowles.....Chicago  
McConnell Sch Supply Co.....Phila  
Peabody Sch. Furn. Co..N. Man-  
chester, Ind., & Topeka, Kan.  
Grand Rapids Sch Furn Co  
Grand Rapids, Mich  
Haney Sch F Co..Grand Rapids, Mich  
L A Murray & Co.....Kilbourn, Wis  
Thos Kane & Co.....Racine, Wis  
Moore Mfg Co.....Springfield, Mo  
Piqua School Furn Co.....Piqua, O  
Milton-Bradley Co..Springfield, Mass  
Phillips Sch Supp H.Williamsport, Pa  
N. J. Church School Furniture  
Co.....Trenton, N. J.

SCHOOLROOM STATUARY.

C. Hennecke Co.....Milwaukee

SCHOOL SUPPLIES.

Prang Educational Co  
New York, Chicago, Boston  
Chandler Adj Chair & Desk  
Works.....Chicago  
Chandler & Barber.....Chicago  
American Sch Furn Co  
Chicago, "  
Chicago, New York  
Chicago, "  
Grand Rapids Sch Furn Co  
Chicago, "  
Thos Kane & Co Works  
Chicago, "  
N Y Silicate Slate Co.....Chicago  
Jas. B. Wilson Co.....Chicago  
Peckham, Little & Co.....Chicago  
O W Bardeen.....Syracuse, N Y  
McConnell Sch Supply Co.....Phila  
Peabody Sch. Furn. Co..N. Man-  
chester, Ind., & Topeka, Kan.  
Columbia School Supply Co  
Indianapolis, Ind  
The A H Andrews Co.....Chicago  
The Caxton Co.....Chicago  
E W A Rowles.....Chicago  
Rand, McNally & Co.....Chicago  
Thomas Kane & Co.....Racine, Wis  
L A Murray & Co.....Kilbourn, Wis  
Haney Sch F Co..Grand Rapids, Mich  
Milton-Bradley Co..Springfield, Mass  
Phillips Sch Supp H.Williamsport, Pa  
N. J. Church School Furniture  
Co.....Trenton, N. J.  
Scarborough Co., School Dept.  
"B"  
Boston

TEACHERS' AGENCIES.

Central Teachers' Agcy..Columbus, O  
Nat'l Educational Bureau  
Harrisburg, Pa  
N E Teachers' Exchange  
Providence, R I  
Schermerhorn Teachers' Agency  
New York  
Pratt Teachers' Agency  
Syracuse  
School Bulletin Agency.Syracuse, N.Y.  
Albany Teachers' Agency.....Albany  
Rome Teachers' Agency.....Rome, N. Y.  
Teachers' Exchange.....Boston  
Educators' Exchange  
Fisher's Teachers' Agency.....Chicago  
Albert Teachers' Agency.....Chicago  
Clark Teachers' Agency.....Chicago  
McCullough Teachers' Agency.....Chicago  
N. W. Teachers' Bur...Madison, Wis.

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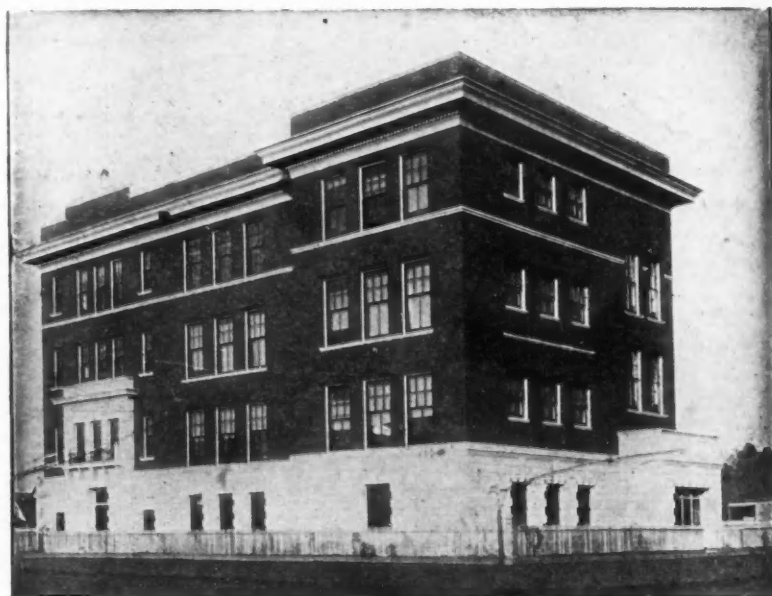
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